aws

API Reference

AWS Clean Rooms ML

API Version 2023-09-06

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AWS Clean Rooms ML: API Reference

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Table of Contents

Welcome **1**
Actions **2**
CancelTrainedModel 5
Request Syntax 5
URI Request Parameters 5
Request Body 6
Response Syntax 6
Response Elements 6
Errors 6
See Also 7
CancelTrainedModelInferenceJob 8
Request Syntax 8
URI Request Parameters 8
Request Body 8
Response Syntax 8
Response Elements 9
Errors 9
See Also 9
CreateAudienceModel 11
Request Syntax 11
URI Request Parameters 11
Request Body 11
Response Syntax 14
Response Elements 14
Errors 14
See Also 15
CreateConfiguredAudienceModel 16
Request Syntax 16
URI Request Parameters 16
Request Body 16
Response Syntax 20
Response Elements 20
Errors 20
See Also 21

CreateConfiguredModelAlgorithm ... 22
Request Syntax ... 22
URI Request Parameters ... 22
Request Body ... 22
Response Syntax ... 25
Response Elements ... 25
Errors ... 25
See Also ... 26
CreateConfiguredModelAlgorithmAssociation ... 27
Request Syntax ... 27
URI Request Parameters ... 28
Request Body ... 29
Response Syntax ... 30
Response Elements ... 31
Errors ... 31
See Also ... 32
CreateMLInputChannel ... 33
Request Syntax ... 33
URI Request Parameters ... 33
Request Body ... 33
Response Syntax ... 36
Response Elements ... 36
Errors ... 36
See Also ... 37
CreateTrainedModel ... 39
Request Syntax ... 39
URI Request Parameters ... 40
Request Body ... 40
Response Syntax ... 44
Response Elements ... 44
Errors ... 45
See Also ... 46
CreateTrainingDataset ... 48
Request Syntax ... 48
URI Request Parameters ... 49
Request Body ... 49

Response Syntax ... 51
Response Elements ... 51
Errors ... 51
See Also ... 52
DeleteAudienceGenerationJob ... 53
Request Syntax ... 53
URI Request Parameters ... 53
Request Body ... 53
Response Syntax ... 53
Response Elements ... 53
Errors ... 53
See Also ... 54
DeleteAudienceModel ... 55
Request Syntax ... 55
URI Request Parameters ... 55
Request Body ... 55
Response Syntax ... 55
Response Elements ... 55
Errors ... 55
See Also ... 56
DeleteConfiguredAudienceModel ... 57
Request Syntax ... 57
URI Request Parameters ... 57
Request Body ... 57
Response Syntax ... 57
Response Elements ... 57
Errors ... 57
See Also ... 58
DeleteConfiguredAudienceModelPolicy ... 59
Request Syntax ... 59
URI Request Parameters ... 59
Request Body ... 59
Response Syntax ... 59
Response Elements ... 59
Errors ... 59
See Also ... 60

DeleteConfiguredModelAlgorithm ... 61
Request Syntax ... 61
URI Request Parameters ... 61
Request Body ... 61
Response Syntax ... 61
Response Elements ... 61
Errors ... 61
See Also ... 62
DeleteConfiguredModelAlgorithmAssociation ... 63
Request Syntax ... 63
URI Request Parameters ... 63
Request Body ... 63
Response Syntax ... 64
Response Elements ... 64
Errors ... 64
See Also ... 65
DeleteMLConfiguration ... 66
Request Syntax ... 66
URI Request Parameters ... 66
Request Body ... 66
Response Syntax ... 66
Response Elements ... 66
Errors ... 66
See Also ... 67
DeleteMLInputChannelData ... 68
Request Syntax ... 68
URI Request Parameters ... 68
Request Body ... 68
Response Syntax ... 68
Response Elements ... 69
Errors ... 69
See Also ... 69
DeleteTrainedModelOutput ... 71
Request Syntax ... 71
URI Request Parameters ... 71
Request Body ... 72

Response Syntax ... 72
Response Elements ... 72
Errors ... 72
See Also ... 73
DeleteTrainingDataset ... 74
Request Syntax ... 74
URI Request Parameters ... 74
Request Body ... 74
Response Syntax ... 74
Response Elements ... 74
Errors ... 75
See Also ... 75
GetAudienceGenerationJob ... 77
Request Syntax ... 77
URI Request Parameters ... 77
Request Body ... 77
Response Syntax ... 77
Response Elements ... 78
Errors ... 81
See Also ... 82
GetAudienceModel ... 83
Request Syntax ... 83
URI Request Parameters ... 83
Request Body ... 83
Response Syntax ... 83
Response Elements ... 84
Errors ... 86
See Also ... 87
GetCollaborationConfiguredModelAlgorithmAssociation ... 88
Request Syntax ... 88
URI Request Parameters ... 88
Request Body ... 88
Response Syntax ... 89
Response Elements ... 90
Errors ... 92
See Also ... 93

GetCollaborationMLInputChannel 94
Request Syntax 94
URI Request Parameters 94
Request Body 94
Response Syntax 95
Response Elements 95
Errors 98
See Also 98
GetCollaborationTrainedModel 100
Request Syntax 100
URI Request Parameters 100
Request Body 101
Response Syntax 101
Response Elements 102
Errors 106
See Also 106
GetConfiguredAudienceModel 108
Request Syntax 108
URI Request Parameters 108
Request Body 108
Response Syntax 108
Response Elements 109
Errors 112
See Also 112
GetConfiguredAudienceModelPolicy 114
Request Syntax 114
URI Request Parameters 114
Request Body 114
Response Syntax 114
Response Elements 114
Errors 115
See Also 116
GetConfiguredModelAlgorithm 117
Request Syntax 117
URI Request Parameters 117
Request Body 117

Response Syntax ... 117
Response Elements ... 118
Errors ... 121
See Also ... 121
GetConfiguredModelAlgorithmAssociation ... 122
Request Syntax ... 122
URI Request Parameters ... 122
Request Body ... 122
Response Syntax ... 123
Response Elements ... 124
Errors ... 127
See Also ... 127
GetMLConfiguration ... 129
Request Syntax ... 129
URI Request Parameters ... 129
Request Body ... 129
Response Syntax ... 129
Response Elements ... 130
Errors ... 130
See Also ... 131
GetMLInputChannel ... 132
Request Syntax ... 132
URI Request Parameters ... 132
Request Body ... 132
Response Syntax ... 132
Response Elements ... 133
Errors ... 137
See Also ... 138
GetTrainedModel ... 139
Request Syntax ... 139
URI Request Parameters ... 139
Request Body ... 140
Response Syntax ... 140
Response Elements ... 141
Errors ... 147
See Also ... 147

GetTrainedModelInferenceJob ... 149
Request Syntax ... 149
URI Request Parameters ... 149
Request Body ... 149
Response Syntax ... 150
Response Elements ... 151
Errors ... 156
See Also ... 156
GetTrainingDataset ... 158
Request Syntax ... 158
URI Request Parameters ... 158
Request Body ... 158
Response Syntax ... 158
Response Elements ... 159
Errors ... 161
See Also ... 161
ListAudienceExportJobs ... 163
Request Syntax ... 163
URI Request Parameters ... 163
Request Body ... 163
Response Syntax ... 163
Response Elements ... 164
Errors ... 165
See Also ... 165
ListAudienceGenerationJobs ... 166
Request Syntax ... 166
URI Request Parameters ... 166
Request Body ... 167
Response Syntax ... 167
Response Elements ... 167
Errors ... 168
See Also ... 168
ListAudienceModels ... 169
Request Syntax ... 169
URI Request Parameters ... 169
Request Body ... 169

Response Syntax ... 169
Response Elements ... 170
Errors ... 170
See Also ... 171
ListCollaborationConfiguredModelAlgorithmAssociations ... 172
Request Syntax ... 172
URI Request Parameters ... 172
Request Body ... 172
Response Syntax ... 172
Response Elements ... 173
Errors ... 173
See Also ... 174
ListCollaborationMLInputChannels ... 175
Request Syntax ... 175
URI Request Parameters ... 175
Request Body ... 175
Response Syntax ... 175
Response Elements ... 176
Errors ... 176
See Also ... 177
ListCollaborationTrainedModelExportJobs ... 178
Request Syntax ... 178
URI Request Parameters ... 178
Request Body ... 179
Response Syntax ... 179
Response Elements ... 180
Errors ... 180
See Also ... 181
ListCollaborationTrainedModelInferenceJobs ... 182
Request Syntax ... 182
URI Request Parameters ... 182
Request Body ... 183
Response Syntax ... 183
Response Elements ... 184
Errors ... 184
See Also ... 185

ListCollaborationTrainedModels ... 186
Request Syntax ... 186
URI Request Parameters ... 186
Request Body ... 186
Response Syntax ... 186
Response Elements ... 187
Errors ... 188
See Also ... 188
ListConfiguredAudienceModels ... 190
Request Syntax ... 190
URI Request Parameters ... 190
Request Body ... 190
Response Syntax ... 190
Response Elements ... 191
Errors ... 191
See Also ... 192
ListConfiguredModelAlgorithmAssociations ... 193
Request Syntax ... 193
URI Request Parameters ... 193
Request Body ... 193
Response Syntax ... 193
Response Elements ... 194
Errors ... 194
See Also ... 195
ListConfiguredModelAlgorithms ... 196
Request Syntax ... 196
URI Request Parameters ... 196
Request Body ... 196
Response Syntax ... 196
Response Elements ... 197
Errors ... 197
See Also ... 198
ListMLInputChannels ... 199
Request Syntax ... 199
URI Request Parameters ... 199
Request Body ... 199

Response Syntax ... 199
Response Elements ... 200
Errors ... 200
See Also ... 201
ListTagsForResource ... 202
Request Syntax ... 202
URI Request Parameters ... 202
Request Body ... 202
Response Syntax ... 202
Response Elements ... 203
Errors ... 203
See Also ... 204
ListTrainedModelInferenceJobs ... 205
Request Syntax ... 205
URI Request Parameters ... 205
Request Body ... 206
Response Syntax ... 206
Response Elements ... 207
Errors ... 207
See Also ... 208
ListTrainedModels ... 209
Request Syntax ... 209
URI Request Parameters ... 209
Request Body ... 209
Response Syntax ... 209
Response Elements ... 210
Errors ... 211
See Also ... 211
ListTrainedModelVersions ... 213
Request Syntax ... 213
URI Request Parameters ... 213
Request Body ... 214
Response Syntax ... 214
Response Elements ... 215
Errors ... 215
See Also ... 216

ListTrainingDatasets ... 217
Request Syntax ... 217
URI Request Parameters ... 217
Request Body ... 217
Response Syntax ... 217
Response Elements ... 218
Errors ... 218
See Also ... 219
PutConfiguredAudienceModelPolicy ... 220
Request Syntax ... 220
URI Request Parameters ... 220
Request Body ... 220
Response Syntax ... 221
Response Elements ... 221
Errors ... 222
See Also ... 222
PutMLConfiguration ... 224
Request Syntax ... 224
URI Request Parameters ... 224
Request Body ... 224
Response Syntax ... 225
Response Elements ... 225
Errors ... 225
See Also ... 225
StartAudienceExportJob ... 227
Request Syntax ... 227
URI Request Parameters ... 227
Request Body ... 227
Response Syntax ... 228
Response Elements ... 228
Errors ... 228
See Also ... 229
StartAudienceGenerationJob ... 231
Request Syntax ... 231
URI Request Parameters ... 231
Request Body ... 231

Response Syntax ... 234
Response Elements ... 234
Errors ... 234
See Also ... 235
StartTrainedModelExportJob ... 237
Request Syntax ... 237
URI Request Parameters ... 237
Request Body ... 238
Response Syntax ... 239
Response Elements ... 239
Errors ... 239
See Also ... 240
StartTrainedModelInferenceJob ... 241
Request Syntax ... 241
URI Request Parameters ... 242
Request Body ... 242
Response Syntax ... 246
Response Elements ... 246
Errors ... 246
See Also ... 247
TagResource ... 248
Request Syntax ... 248
URI Request Parameters ... 248
Request Body ... 248
Response Syntax ... 249
Response Elements ... 249
Errors ... 250
See Also ... 250
UntagResource ... 251
Request Syntax ... 251
URI Request Parameters ... 251
Request Body ... 251
Response Syntax ... 252
Response Elements ... 252
Errors ... 252
See Also ... 252

UpdateConfiguredAudienceModel ... 254
Request Syntax ... 254
URI Request Parameters ... 254
Request Body ... 255
Response Syntax ... 256
Response Elements ... 256
Errors ... 257
See Also ... 257
Data Types ... 259
AudienceDestination ... 262
Contents ... 262
See Also ... 262
AudienceExportJobSummary ... 263
Contents ... 263
See Also ... 265
AudienceGenerationJobDataSource ... 266
Contents ... 266
See Also ... 267
AudienceGenerationJobSummary ... 268
Contents ... 268
See Also ... 270
AudienceModelSummary ... 271
Contents ... 271
See Also ... 272
AudienceQualityMetrics ... 274
Contents ... 274
See Also ... 274
AudienceSize ... 275
Contents ... 275
See Also ... 275
AudienceSizeConfig ... 276
Contents ... 276
See Also ... 276
CollaborationConfiguredModelAlgorithmAssociationSummary ... 278
Contents ... 278
See Also ... 280

CollaborationMLInputChannelSummary 281
Contents 281
See Also 283
CollaborationTrainedModelExportJobSummary 284
Contents 284
See Also 286
CollaborationTrainedModelInferenceJobSummary 288
Contents 288
See Also 292
CollaborationTrainedModelSummary 293
Contents 293
See Also 296
ColumnSchema 297
Contents 297
See Also 297
ComputeConfiguration 298
Contents 298
See Also 298
ConfiguredAudienceModelOutputConfig 299
Contents 299
See Also 299
ConfiguredAudienceModelSummary 300
Contents 300
See Also 302
ConfiguredModelAlgorithmAssociationSummary 303
Contents 303
See Also 305
ConfiguredModelAlgorithmSummary 306
Contents 306
See Also 307
ContainerConfig 308
Contents 308
See Also 309
CustomEntityConfig 310
Contents 310
See Also 310

Dataset ... 311
Contents ... 311
See Also ... 311
DatasetInputConfig ... 312
Contents ... 312
See Also ... 312
DataSource ... 313
Contents ... 313
See Also ... 313
Destination ... 314
Contents ... 314
See Also ... 314
GlueDataSource ... 315
Contents ... 315
See Also ... 316
IncrementalTrainingDataChannel ... 317
Contents ... 317
See Also ... 318
IncrementalTrainingDataChannelOutput ... 319
Contents ... 319
See Also ... 320
InferenceContainerConfig ... 321
Contents ... 321
See Also ... 321
InferenceContainerExecutionParameters ... 322
Contents ... 322
See Also ... 322
InferenceOutputConfiguration ... 323
Contents ... 323
See Also ... 323
InferenceReceiverMember ... 324
Contents ... 324
See Also ... 324
InferenceResourceConfig ... 325
Contents ... 325
See Also ... 326

InputChannel 327
Contents 327
See Also 327
InputChannelDataSource 328
Contents 328
See Also 328
LogRedactionConfiguration 329
Contents 329
See Also 329
LogsConfigurationPolicy 330
Contents 330
See Also 331
MetricDefinition 332
Contents 332
See Also 332
MetricsConfigurationPolicy 333
Contents 333
See Also 333
MLInputChannelSummary 334
Contents 334
See Also 336
MLOutputConfiguration 337
Contents 337
See Also 337
ModelInferenceDataSource 338
Contents 338
See Also 338
ModelTrainingDataChannel 339
Contents 339
See Also 340
PrivacyConfiguration 341
Contents 341
See Also 341
PrivacyConfigurationPolicies 342
Contents 342
See Also 342

ProtectedQueryInputParameters 343
Contents 343
See Also 343
ProtectedQuerySQLParameters 345
Contents 345
See Also 346
RelevanceMetric 347
Contents 347
See Also 347
ResourceConfig 348
Contents 348
See Also 349
S3ConfigMap 350
Contents 350
See Also 350
StatusDetails 351
Contents 351
See Also 351
StoppingCondition 352
Contents 352
See Also 352
TrainedModelArtifactMaxSize 353
Contents 353
See Also 353
TrainedModelExportOutputConfiguration 354
Contents 354
See Also 354
TrainedModelExportReceiverMember 355
Contents 355
See Also 355
TrainedModelExportsConfigurationPolicy 356
Contents 356
See Also 356
TrainedModelExportsMaxSize 357
Contents 357
See Also 357

TrainedModelInferenceJobsConfigurationPolicy 358
Contents 358
See Also 358
TrainedModelInferenceJobSummary 359
Contents 359
See Also 362
TrainedModelInferenceMaxOutputSize 364
Contents 364
See Also 364
TrainedModelsConfigurationPolicy 365
Contents 365
See Also 365
TrainedModelSummary 367
Contents 367
See Also 369
TrainingDatasetSummary 371
Contents 371
See Also 372
WorkerComputeConfiguration 373
Contents 373
See Also 373
Common Parameters 374
Common Errors 377

Welcome

Welcome to the *AWS Clean Rooms ML API Reference*.

AWS Clean Rooms ML provides a privacy-enhancing method for two parties to identify similar users in their data without the need to share their data with each other. The first party brings the training data to AWS Clean Rooms so that they can create and configure an audience model (lookalike model) and associate it with a collaboration. The second party then brings their seed data to AWS Clean Rooms and generates an audience (lookalike segment) that resembles the training data.

To learn more about AWS Clean Rooms ML concepts, procedures, and best practices, see the AWS Clean Rooms User Guide.

To learn more about SQL commands, functions, and conditions supported in AWS Clean Rooms, see the AWS Clean Rooms SQL Reference.

This document was last published on September 6, 2025.

Actions

The following actions are supported:

- CancelTrainedModel
- CancelTrainedModelInferenceJob
- CreateAudienceModel
- CreateConfiguredAudienceModel
- CreateConfiguredModelAlgorithm
- CreateConfiguredModelAlgorithmAssociation
- CreateMLInputChannel
- CreateTrainedModel
- CreateTrainingDataset
- DeleteAudienceGenerationJob
- DeleteAudienceModel
- DeleteConfiguredAudienceModel
- DeleteConfiguredAudienceModelPolicy
- DeleteConfiguredModelAlgorithm
- DeleteConfiguredModelAlgorithmAssociation
- DeleteMLConfiguration
- DeleteMLInputChannelData
- DeleteTrainedModelOutput
- DeleteTrainingDataset
- GetAudienceGenerationJob
- GetAudienceModel
- GetCollaborationConfiguredModelAlgorithmAssociation
- GetCollaborationMLInputChannel
- GetCollaborationTrainedModel
- GetConfiguredAudienceModel
- GetConfiguredAudienceModelPolicy
- GetConfiguredModelAlgorithm

- GetConfiguredModelAlgorithmAssociation
- GetMLConfiguration
- GetMLInputChannel
- GetTrainedModel
- GetTrainedModelInferenceJob
- GetTrainingDataset
- ListAudienceExportJobs
- ListAudienceGenerationJobs
- ListAudienceModels
- ListCollaborationConfiguredModelAlgorithmAssociations
- ListCollaborationMLInputChannels
- ListCollaborationTrainedModelExportJobs
- ListCollaborationTrainedModelInferenceJobs
- ListCollaborationTrainedModels
- ListConfiguredAudienceModels
- ListConfiguredModelAlgorithmAssociations
- ListConfiguredModelAlgorithms
- ListMLInputChannels
- ListTagsForResource
- ListTrainedModelInferenceJobs
- ListTrainedModels
- ListTrainedModelVersions
- ListTrainingDatasets
- PutConfiguredAudienceModelPolicy
- PutMLConfiguration
- StartAudienceExportJob
- StartAudienceGenerationJob
- StartTrainedModelExportJob
- StartTrainedModelInferenceJob
- TagResource

- UntagResource
- UpdateConfiguredAudienceModel

CancelTrainedModel

Submits a request to cancel the trained model job.

Request Syntax

```
PATCH /memberships/membershipIdentifier/trained-models/trainedModelArn?
versionIdentifier=versionIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the trained model job that you want to cancel.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model job that you want to cancel.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

versionIdentifier

The version identifier of the trained model to cancel. This parameter allows you to specify which version of the trained model you want to cancel when multiple versions exist.

If `versionIdentifier` is not specified, the base model will be cancelled.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CancelTrainedModelInferenceJob

Submits a request to cancel a trained model inference job.

Request Syntax

```
PATCH /memberships/membershipIdentifier/trained-model-inference-
jobs/trainedModelInferenceJobArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the trained model inference job that you want to cancel.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

trainedModelInferenceJobArn

The Amazon Resource Name (ARN) of the trained model inference job that you want to cancel.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateAudienceModel

Defines the information necessary to create an audience model. An audience model is a machine learning model that Clean Rooms ML trains to measure similarity between users. Clean Rooms ML manages training and storing the audience model. The audience model can be used in multiple calls to the StartAudienceGenerationJob API.

Request Syntax

```
POST /audience-model HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "kmsKeyArn": "string",
   "name": "string",
   "tags": {
      "string" : "string"
   },
   "trainingDataEndTime": "string",
   "trainingDatasetArn": "string",
   "trainingDataStartTime": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description

The description of the audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the trained ML model and the associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

name

The name of the audience model resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.

- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

trainingDataEndTime

The end date and time of the training window.

Type: Timestamp

Required: No

trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset for this audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

trainingDataStartTime

The start date and time of the training window.

Type: Timestamp

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "audienceModelArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

audienceModelArn

The Amazon Resource Name (ARN) of the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConfiguredAudienceModel

Defines the information necessary to create a configured audience model.

Request Syntax

```
POST /configured-audience-model HTTP/1.1
Content-type: application/json

{
   "audienceModelArn": "string",
   "audienceSizeConfig": {
      "audienceSizeBins": [ number ],
      "audienceSizeType": "string"
   },
   "childResourceTagOnCreatePolicy": "string",
   "description": "string",
   "minMatchingSeedSize": number,
   "name": "string",
   "outputConfig": {
      "destination": {
         "s3Destination": {
            "s3Uri": "string"
         }
      },
      "roleArn": "string"
   },
   "sharedAudienceMetrics": [ "string" ],
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

audienceModelArn

The Amazon Resource Name (ARN) of the audience model to use for the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

audienceSizeConfig

Configure the list of output sizes of audiences that can be created using this configured audience model. A request to StartAudienceGenerationJob that uses this configured audience model must have an `audienceSize` selected from this list. You can use the `ABSOLUTE` AudienceSize to configure out audience sizes using the count of identifiers in the output. You can use the `Percentage` AudienceSize to configure sizes in the range 1-100 percent.

Type: AudienceSizeConfig object

Required: No

childResourceTagOnCreatePolicy

Configure how the service tags audience generation jobs created using this configured audience model. If you specify `NONE`, the tags from the StartAudienceGenerationJob request determine the tags of the audience generation job. If you specify `FROM_PARENT_RESOURCE`, the audience generation job inherits the tags from the configured audience model, by default. Tags in the StartAudienceGenerationJob will override the default.

When the client is in a different account than the configured audience model, the tags from the client are never applied to a resource in the caller's account.

Type: String

Valid Values: `FROM_PARENT_RESOURCE | NONE`

Required: No

description

The description of the configured audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

minMatchingSeedSize

The minimum number of users from the seed audience that must match with users in the training data of the audience model. The default value is 500.

Type: Integer

Valid Range: Minimum value of 25. Maximum value of 500000.

Required: No

name

The name of the configured audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

outputConfig

Configure the Amazon S3 location and IAM Role for audiences created using this configured audience model. Each audience will have a unique location. The IAM Role must have `s3:PutObject` permission on the destination Amazon S3 location. If the destination is protected with Amazon S3 KMS-SSE, then the Role must also have the required AWS KMS permissions.

Type: ConfiguredAudienceModelOutputConfig object

Required: Yes

sharedAudienceMetrics

Whether audience metrics are shared.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `ALL | NONE`

Required: Yes

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredAudienceModelArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConfiguredModelAlgorithm

Creates a configured model algorithm using a container image stored in an ECR repository.

Request Syntax

```
POST /configured-model-algorithms HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "inferenceContainerConfig": {
      "imageUri": "string"
   },
   "kmsKeyArn": "string",
   "name": "string",
   "roleArn": "string",
   "tags": {
      "string" : "string"
   },
   "trainingContainerConfig": {
      "arguments": [ "string" ],
      "entrypoint": [ "string" ],
      "imageUri": "string",
      "metricDefinitions": [
         {
            "name": "string",
            "regex": "string"
         }
      ]
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description

The description of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

inferenceContainerConfig

Configuration information for the inference container that is used when you run an inference job on a configured model algorithm.

Type: InferenceContainerConfig object

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the configured ML model algorithm and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

name

The name of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

roleArn

The Amazon Resource Name (ARN) of the role that is used to access the repository.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

trainingContainerConfig

Configuration information for the training container, including entrypoints and arguments.

Type: ContainerConfig object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredModelAlgorithmArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConfiguredModelAlgorithmAssociation

Associates a configured model algorithm to a collaboration for use by any member of the collaboration.

Request Syntax

```
POST /memberships/membershipIdentifier/configured-model-algorithm-associations HTTP/1.1
Content-type: application/json

{
   "configuredModelAlgorithmArn": "string",
   "description": "string",
   "name": "string",
   "privacyConfiguration": {
      "policies": {
         "trainedModelExports": {
            "filesToExport": [ "string" ],
            "maxSize": {
               "unit": "string",
               "value": number
            }
         },
         "trainedModelInferenceJobs": {
            "containerLogs": [
               {
                  "allowedAccountIds": [ "string" ],
                  "filterPattern": "string",
                  "logRedactionConfiguration": {
                     "customEntityConfig": {
                        "customDataIdentifiers": [ "string" ]
                     },
                     "entitiesToRedact": [ "string" ]
                  },
                  "logType": "string"
               }
            ],
            "maxOutputSize": {
               "unit": "string",
               "value": number
            }
         },
         "trainedModels": {
```

```
            "containerLogs": [
               {
                  "allowedAccountIds": [ "string" ],
                  "filterPattern": "string",
                  "logRedactionConfiguration": {
                     "customEntityConfig": {
                        "customDataIdentifiers": [ "string" ]
                     },
                     "entitiesToRedact": [ "string" ]
                  },
                  "logType": "string"
               }
            ],
            "containerMetrics": {
               "noiseLevel": "string"
            },
            "maxArtifactSize": {
               "unit": "string",
               "value": number
            }
         }
      }
   },
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the member who is associating this configured model algorithm.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm that you want to associate.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

privacyConfiguration

Specifies the privacy configuration information for the configured model algorithm association. This information includes the maximum data size that can be exported.

Type: PrivacyConfiguration object

Required: No

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "configuredModelAlgorithmAssociationArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateMLInputChannel

Provides the information to create an ML input channel. An ML input channel is the result of a query that can be used for ML modeling.

Request Syntax

```
POST /memberships/membershipIdentifier/ml-input-channels HTTP/1.1
Content-type: application/json

{
   "configuredModelAlgorithmAssociations": [ "string" ],
   "description": "string",
   "inputChannel": {
      "dataSource": { ... },
      "roleArn": "string"
   },
   "kmsKeyArn": "string",
   "name": "string",
   "retentionInDays": number,
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the member that is creating the ML input channel.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

configuredModelAlgorithmAssociations

The associated configured model algorithms that are necessary to create this ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

inputChannel

The input data that is used to create this ML input channel.

Type: InputChannel object

Required: Yes

kmsKeyArn

The Amazon Resource Name (ARN) of the KMS key that is used to access the input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

name

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

retentionInDays

The number of days that the data in the ML input channel is retained.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 30.

Required: Yes

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "mlInputChannelArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateTrainedModel

Creates a trained model from an associated configured model algorithm using data from any member of the collaboration.

Request Syntax

```
POST /memberships/membershipIdentifier/trained-models HTTP/1.1
Content-type: application/json

{
   "configuredModelAlgorithmAssociationArn": "string",
   "dataChannels": [
      {
         "channelName": "string",
         "mlInputChannelArn": "string",
         "s3DataDistributionType": "string"
      }
   ],
   "description": "string",
   "environment": {
      "string" : "string"
   },
   "hyperparameters": {
      "string" : "string"
   },
   "incrementalTrainingDataChannels": [
      {
         "channelName": "string",
         "trainedModelArn": "string",
         "versionIdentifier": "string"
      }
   ],
   "kmsKeyArn": "string",
   "name": "string",
   "resourceConfig": {
      "instanceCount": number,
      "instanceType": "string",
      "volumeSizeInGB": number
   },
   "stoppingCondition": {
      "maxRuntimeInSeconds": number
   },
```

```
   "tags": {
      "string" : "string"
   },
   "trainingInputMode": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the member that is creating the trained model.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

configuredModelAlgorithmAssociationArn

The associated configured model algorithm used to train this model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

dataChannels

Defines the data channels that are used as input for the trained model request.

Limit: Maximum of 20 channels total (including both `dataChannels` and `incrementalTrainingDataChannels`).

Type: Array of ModelTrainingDataChannel objects

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Required: Yes

description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

environment

The environment variables to set in the Docker container.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 512.

Key Pattern: `[a-zA-Z_][a-zA-Z0-9_]*`

Value Length Constraints: Minimum length of 1. Maximum length of 512.

Value Pattern: `[\S\s]*`

Required: No

hyperparameters

Algorithm-specific parameters that influence the quality of the model. You set hyperparameters before you start the learning process.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `.*`

Value Length Constraints: Minimum length of 1. Maximum length of 2500.

Value Pattern: `.*`

Required: No

incrementalTrainingDataChannels

Specifies the incremental training data channels for the trained model.

Incremental training allows you to create a new trained model with updates without retraining from scratch. You can specify up to one incremental training data channel that references a previously trained model and its version.

Limit: Maximum of 20 channels total (including both `incrementalTrainingDataChannels` and `dataChannels`).

Type: Array of IncrementalTrainingDataChannel objects

Array Members: Fixed number of 1 item.

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the trained ML model and the associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

name

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

resourceConfig

Information about the EC2 resources that are used to train this model.

Type: ResourceConfig object

Required: Yes

stoppingCondition

The criteria that is used to stop model training.

Type: StoppingCondition object

Required: No

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

trainingInputMode

The input mode for accessing the training data. This parameter determines how the training data is made available to the training algorithm. Valid values are:

- `File` - The training data is downloaded to the training instance and made available as files.
- `FastFile` - The training data is streamed directly from Amazon S3 to the training algorithm, providing faster access for large datasets.
- `Pipe` - The training data is streamed to the training algorithm using named pipes, which can improve performance for certain algorithms.

Type: String

Valid Values: `File | FastFile | Pipe`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "trainedModelArn": "string",
   "versionIdentifier": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

trainedModelArn

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

versionIdentifier

The unique version identifier assigned to the newly created trained model. This identifier can be used to reference this specific version of the trained model in subsequent operations such as inference jobs or incremental training.

The initial version identifier for the base version of the trained model is "NULL".

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

InternalServiceException

An internal service error occurred. Retry your request. If the problem persists, contact AWS Support.

HTTP Status Code: 500

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateTrainingDataset

Defines the information necessary to create a training dataset. In Clean Rooms ML, the `TrainingDataset` is metadata that points to a Glue table, which is read only during `AudienceModel` creation.

Request Syntax

```
POST /training-dataset HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string",
   "roleArn": "string",
   "tags": {
      "string" : "string"
   },
   "trainingData": [
      {
         "inputConfig": {
            "dataSource": {
               "glueDataSource": {
                  "catalogId": "string",
                  "databaseName": "string",
                  "tableName": "string"
               }
            },
            "schema": [
               {
                  "columnName": "string",
                  "columnTypes": [ "string" ]
               }
            ]
         },
         "type": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description

The description of the training dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

The name of the training dataset. This name must be unique in your account and region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

roleArn

The ARN of the IAM role that Clean Rooms ML can assume to read the data referred to in the `dataSource` field of each dataset.

Passing a role across AWS accounts is not allowed. If you pass a role that isn't in your account, you get an `AccessDeniedException` error.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

trainingData

An array of information that lists the Dataset objects, which specifies the dataset type and details on its location and schema. You must provide a role that has read access to these tables.

Type: Array of Dataset objects

Array Members: Fixed number of 1 item.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "trainingDatasetArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteAudienceGenerationJob

Deletes the specified audience generation job, and removes all data associated with the job.

Request Syntax

```
DELETE /audience-generation-job/audienceGenerationJobArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteAudienceModel

Specifies an audience model that you want to delete. You can't delete an audience model if there are any configured audience models that depend on the audience model.

Request Syntax

```
DELETE /audience-model/audienceModelArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

audienceModelArn

The Amazon Resource Name (ARN) of the audience model that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConfiguredAudienceModel

Deletes the specified configured audience model. You can't delete a configured audience model if there are any lookalike models that use the configured audience model. If you delete a configured audience model, it will be removed from any collaborations that it is associated to.

Request Syntax

```
DELETE /configured-audience-model/configuredAudienceModelArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConfiguredAudienceModelPolicy

Deletes the specified configured audience model policy.

Request Syntax

```
DELETE /configured-audience-model/configuredAudienceModelArn/policy HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model policy that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConfiguredModelAlgorithm

Deletes a configured model algorithm.

Request Syntax

```
DELETE /configured-model-algorithms/configuredModelAlgorithmArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConfiguredModelAlgorithmAssociation

Deletes a configured model algorithm association.

Request Syntax

```
DELETE /memberships/membershipIdentifier/configured-model-algorithm-
associations/configuredModelAlgorithmAssociationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

membershipIdentifier

The membership ID of the member that is deleting the configured model algorithm association.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteMLConfiguration

Deletes a ML modeling configuration.

Request Syntax

```
DELETE /memberships/membershipIdentifier/ml-configurations HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the of the member that is deleting the ML modeling configuration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteMLInputChannelData

Provides the information necessary to delete an ML input channel.

Request Syntax

```
DELETE /memberships/membershipIdentifier/ml-input-channels/mlInputChannelArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the membership that contains the ML input channel you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteTrainedModelOutput

Deletes the model artifacts stored by the service.

Request Syntax

```
DELETE /memberships/membershipIdentifier/trained-models/trainedModelArn?
versionIdentifier=versionIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the member that is deleting the trained model output.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model whose output you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

versionIdentifier

The version identifier of the trained model to delete. If not specified, the operation will delete the base version of the trained model. When specified, only the particular version will be deleted.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteTrainingDataset

Specifies a training dataset that you want to delete. You can't delete a training dataset if there are any audience models that depend on the training dataset. In Clean Rooms ML, the `TrainingDataset` is metadata that points to a Glue table, which is read only during `AudienceModel` creation. This action deletes the metadata.

Request Syntax

```
DELETE /training-dataset/trainingDatasetArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

GetAudienceGenerationJob

Returns information about an audience generation job.

Request Syntax

```
GET /audience-generation-job/audienceGenerationJobArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "audienceGenerationJobArn": "string",
   "collaborationId": "string",
   "configuredAudienceModelArn": "string",
   "createTime": "string",
   "description": "string",
   "includeSeedInOutput": boolean,
   "metrics": {
      "recallMetric": number,
```

```
      "relevanceMetrics": [
         {
            "audienceSize": {
               "type": "string",
               "value": number
            },
            "score": number
         }
      ]
   },
   "name": "string",
   "protectedQueryIdentifier": "string",
   "seedAudience": {
      "dataSource": {
         "s3Uri": "string"
      },
      "roleArn": "string",
      "sqlComputeConfiguration": { ... },
      "sqlParameters": {
         "analysisTemplateArn": "string",
         "parameters": {
            "string" : "string"
         },
         "queryString": "string"
      }
   },
   "startedBy": "string",
   "status": "string",
   "statusDetails": {
      "message": "string",
      "statusCode": "string"
   },
   "tags": {
      "string" : "string"
   },
   "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

collaborationId

The identifier of the collaboration that this audience generation job is associated with.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model used for this audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

createTime

The time at which the audience generation job was created.

Type: Timestamp

description

The description of the audience generation job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

includeSeedInOutput

Configure whether the seed users are included in the output audience. By default, Clean Rooms ML removes seed users from the output audience. If you specify TRUE, the seed users will appear first in the output. Clean Rooms ML does not explicitly reveal whether a user was in the seed, but the recipient of the audience will know that the first `minimumSeedSize` count of users are from the seed.

Type: Boolean

metrics

The relevance scores for different audience sizes and the recall score of the generated audience.

Type: AudienceQualityMetrics object

name

The name of the audience generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

protectedQueryIdentifier

The unique identifier of the protected query for this audience generation job.

Type: String

seedAudience

The seed audience that was used for this audience generation job. This field will be null if the account calling the API is the account that started this audience generation job.

Type: AudienceGenerationJobDataSource object

startedBy

The AWS account that started this audience generation job.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

status

The status of the audience generation job.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED`

statusDetails

Details about the status of the audience generation job.

Type: StatusDetails object

tags

The tags that are associated to this audience generation job.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

updateTime

The most recent time at which the audience generation job was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetAudienceModel

Returns information about an audience model

Request Syntax

```
GET /audience-model/audienceModelArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

audienceModelArn

The Amazon Resource Name (ARN) of the audience model that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "audienceModelArn": "string",
   "createTime": "string",
   "description": "string",
   "kmsKeyArn": "string",
   "name": "string",
   "status": "string",
   "statusDetails": {
```

```
      "message": "string",
      "statusCode": "string"
   },
   "tags": {
      "string" : "string"
   },
   "trainingDataEndTime": "string",
   "trainingDatasetArn": "string",
   "trainingDataStartTime": "string",
   "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

audienceModelArn

The Amazon Resource Name (ARN) of the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

createTime

The time at which the audience model was created.

Type: Timestamp

description

The description of the audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

kmsKeyArn

The KMS key ARN used for the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

name

The name of the audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

status

The status of the audience model.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED`

statusDetails

Details about the status of the audience model.

Type: StatusDetails object

tags

The tags that are assigned to the audience model.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

trainingDataEndTime

The end date specified for the training window.

Type: Timestamp

trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset that was used for this audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

trainingDataStartTime

The start date specified for the training window.

Type: Timestamp

updateTime

The most recent time at which the audience model was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCollaborationConfiguredModelAlgorithmAssociation

Returns information about the configured model algorithm association in a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/configured-model-algorithm-associations/configuredModelAlgorithmAssociationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The collaboration ID for the collaboration that contains the configured model algorithm association that you want to return information about.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that you want to return information about.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationIdentifier": "string",
   "configuredModelAlgorithmArn": "string",
   "configuredModelAlgorithmAssociationArn": "string",
   "createTime": "string",
   "creatorAccountId": "string",
   "description": "string",
   "membershipIdentifier": "string",
   "name": "string",
   "privacyConfiguration": {
      "policies": {
         "trainedModelExports": {
            "filesToExport": [ "string" ],
            "maxSize": {
               "unit": "string",
               "value": number
            }
         },
         "trainedModelInferenceJobs": {
            "containerLogs": [
               {
                  "allowedAccountIds": [ "string" ],
                  "filterPattern": "string",
                  "logRedactionConfiguration": {
                     "customEntityConfig": {
                        "customDataIdentifiers": [ "string" ]
                     },
                     "entitiesToRedact": [ "string" ]
                  },
                  "logType": "string"
               }
            ],
            "maxOutputSize": {
               "unit": "string",
               "value": number
            }
         },
         "trainedModels": {
```

```
            "containerLogs": [
               {
                  "allowedAccountIds": [ "string" ],
                  "filterPattern": "string",
                  "logRedactionConfiguration": {
                     "customEntityConfig": {
                        "customDataIdentifiers": [ "string" ]
                     },
                     "entitiesToRedact": [ "string" ]
                  },
                  "logType": "string"
               }
            ],
            "containerMetrics": {
               "noiseLevel": "string"
            },
            "maxArtifactSize": {
               "unit": "string",
               "value": number
            }
         }
      }
   },
   "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationIdentifier

The collaboration ID of the collaboration that contains the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

createTime

The time at which the configured model algorithm association was created.

Type: Timestamp

creatorAccountId

The account ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

membershipIdentifier

The membership ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

name

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

privacyConfiguration

Information about the privacy configuration for a configured model algorithm association.

Type: PrivacyConfiguration object

updateTime

The most recent time at which the configured model algorithm association was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCollaborationMLInputChannel

Returns information about a specific ML input channel in a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/ml-input-channels/mlInputChannelArn
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channel that you want to get.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel that you want to get.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationIdentifier": "string",
   "configuredModelAlgorithmAssociations": [ "string" ],
   "createTime": "string",
   "creatorAccountId": "string",
   "description": "string",
   "membershipIdentifier": "string",
   "mlInputChannelArn": "string",
   "name": "string",
   "numberOfRecords": number,
   "retentionInDays": number,
   "status": "string",
   "statusDetails": {
      "message": "string",
      "statusCode": "string"
   },
   "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

configuredModelAlgorithmAssociations

The configured model algorithm associations that were used to create the ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

createTime

The time at which the ML input channel was created.

Type: Timestamp

creatorAccountId

The account ID of the member who created the ML input channel.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

membershipIdentifier

The membership ID of the membership that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

name

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

numberOfRecords

The number of records in the ML input channel.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 100000000000.

retentionInDays

The number of days to retain the data for the ML input channel.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 30.

status

The status of the ML input channel.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE`

statusDetails

Details about the status of a resource.

Type: StatusDetails object

updateTime

The most recent time at which the ML input channel was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCollaborationTrainedModel

Returns information about a trained model in a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/trained-models/trainedModelArn?
versionIdentifier=versionIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The collaboration ID that contains the trained model that you want to return information about.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that you want to return information about.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

versionIdentifier

The version identifier of the trained model to retrieve. If not specified, the operation returns information about the latest version of the trained model.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationIdentifier": "string",
   "configuredModelAlgorithmAssociationArn": "string",
   "createTime": "string",
   "creatorAccountId": "string",
   "description": "string",
   "incrementalTrainingDataChannels": [
      {
         "channelName": "string",
         "modelName": "string",
         "versionIdentifier": "string"
      }
   ],
   "logsStatus": "string",
   "logsStatusDetails": "string",
   "membershipIdentifier": "string",
   "metricsStatus": "string",
   "metricsStatusDetails": "string",
   "name": "string",
   "resourceConfig": {
      "instanceCount": number,
      "instanceType": "string",
      "volumeSizeInGB": number
   },
   "status": "string",
   "statusDetails": {
      "message": "string",
      "statusCode": "string"
   },
```

```
    "stoppingCondition": {
       "maxRuntimeInSeconds": number
    },
    "trainedModelArn": "string",
    "trainingContainerImageDigest": "string",
    "trainingInputMode": "string",
    "updateTime": "string",
    "versionIdentifier": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that was used to create this trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

createTime

The time at which the trained model was created.

Type: Timestamp

creatorAccountId

The account ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

incrementalTrainingDataChannels

Information about the incremental training data channels used to create this version of the trained model. This includes details about the base model that was used for incremental training and the channel configuration.

Type: Array of IncrementalTrainingDataChannelOutput objects

Array Members: Fixed number of 1 item.

logsStatus

Status information for the logs.

Type: String

Valid Values: `PUBLISH_SUCCEEDED | PUBLISH_FAILED`

logsStatusDetails

Details about the status information for the logs.

Type: String

membershipIdentifier

The membership ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

metricsStatus

The status of the model metrics.

Type: String

Valid Values: `PUBLISH_SUCCEEDED | PUBLISH_FAILED`

metricsStatusDetails

Details about the status information for the model metrics.

Type: String

name

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

resourceConfig

The EC2 resource configuration that was used to train this model.

Type: ResourceConfig object

status

The status of the trained model.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE | CANCEL_PENDING | CANCEL_IN_PROGRESS | CANCEL_FAILED`

statusDetails

Details about the status of a resource.

Type: StatusDetails object

stoppingCondition

The stopping condition that determined when model training ended.

Type: StoppingCondition object

trainedModelArn

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

trainingContainerImageDigest

Information about the training container image.

Type: String

trainingInputMode

The input mode that was used for accessing the training data when this trained model was created. This indicates how the training data was made available to the training algorithm.

Type: String

Valid Values: `File | FastFile | Pipe`

updateTime

The most recent time at which the trained model was updated.

Type: Timestamp

versionIdentifier

The version identifier of the trained model. This unique identifier distinguishes this version from other versions of the same trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConfiguredAudienceModel

Returns information about a specified configured audience model.

Request Syntax

```
GET /configured-audience-model/configuredAudienceModelArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "audienceModelArn": "string",
   "audienceSizeConfig": {
      "audienceSizeBins": [ number ],
      "audienceSizeType": "string"
   },
   "childResourceTagOnCreatePolicy": "string",
   "configuredAudienceModelArn": "string",
```

```
   "createTime": "string",
   "description": "string",
   "minMatchingSeedSize": number,
   "name": "string",
   "outputConfig": {
      "destination": {
         "s3Destination": {
            "s3Uri": "string"
         }
      },
      "roleArn": "string"
   },
   "sharedAudienceMetrics": [ "string" ],
   "status": "string",
   "tags": {
      "string" : "string"
   },
   "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

audienceModelArn

The Amazon Resource Name (ARN) of the audience model used for this configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

audienceSizeConfig

The list of output sizes of audiences that can be created using this configured audience model. A request to StartAudienceGenerationJob that uses this configured audience model must have an `audienceSize` selected from this list. You can use the ABSOLUTE AudienceSize to configure

out audience sizes using the count of identifiers in the output. You can use the `Percentage` AudienceSize to configure sizes in the range 1-100 percent.

Type: AudienceSizeConfig object

childResourceTagOnCreatePolicy

Provides the `childResourceTagOnCreatePolicy` that was used for this configured audience model.

Type: String

Valid Values: `FROM_PARENT_RESOURCE | NONE`

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

createTime

The time at which the configured audience model was created.

Type: Timestamp

description

The description of the configured audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

minMatchingSeedSize

The minimum number of users from the seed audience that must match with users in the training data of the audience model.

Type: Integer

Valid Range: Minimum value of 25. Maximum value of 500000.

name

The name of the configured audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

outputConfig

The output configuration of the configured audience model

Type: ConfiguredAudienceModelOutputConfig object

sharedAudienceMetrics

Whether audience metrics are shared.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `ALL | NONE`

status

The status of the configured audience model.

Type: String

Valid Values: `ACTIVE`

tags

The tags that are associated to this configured audience model.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

updateTime

The most recent time at which the configured audience model was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConfiguredAudienceModelPolicy

Returns information about a configured audience model policy.

Request Syntax

```
GET /configured-audience-model/configuredAudienceModelArn/policy HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredAudienceModelArn": "string",
   "configuredAudienceModelPolicy": "string",
   "policyHash": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

configuredAudienceModelPolicy

The configured audience model policy. This is a JSON IAM resource policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

policyHash

A cryptographic hash of the contents of the policy used to prevent unexpected concurrent modification of the policy.

Type: String

Length Constraints: Minimum length of 64. Maximum length of 128.

Pattern: `[0-9a-f]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConfiguredModelAlgorithm

Returns information about a configured model algorithm.

Request Syntax

```
GET /configured-model-algorithms/configuredModelAlgorithmArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm that you want to return information about.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredModelAlgorithmArn": "string",
   "createTime": "string",
   "description": "string",
   "inferenceContainerConfig": {
      "imageUri": "string"
```

```
    },
    "kmsKeyArn": "string",
    "name": "string",
    "roleArn": "string",
    "tags": {
       "string" : "string"
    },
    "trainingContainerConfig": {
       "arguments": [ "string" ],
       "entrypoint": [ "string" ],
       "imageUri": "string",
       "metricDefinitions": [
          {
             "name": "string",
             "regex": "string"
          }
       ]
    },
    "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

createTime

The time at which the configured model algorithm was created.

Type: Timestamp

description

The description of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

inferenceContainerConfig

Configuration information for the inference container.

Type: InferenceContainerConfig object

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the configured ML model and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

name

The name of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

roleArn

The Amazon Resource Name (ARN) of the service role that was used to create the configured model algorithm.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

trainingContainerConfig

The configuration information of the training container for the configured model algorithm.

Type: ContainerConfig object

updateTime

The most recent time at which the configured model algorithm was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConfiguredModelAlgorithmAssociation

Returns information about a configured model algorithm association.

Request Syntax

```
GET /memberships/membershipIdentifier/configured-model-algorithm-
associations/configuredModelAlgorithmAssociationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that you want to return information about.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

membershipIdentifier

The membership ID of the member that created the configured model algorithm association.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationIdentifier": "string",
   "configuredModelAlgorithmArn": "string",
   "configuredModelAlgorithmAssociationArn": "string",
   "createTime": "string",
   "description": "string",
   "membershipIdentifier": "string",
   "name": "string",
   "privacyConfiguration": {
      "policies": {
         "trainedModelExports": {
            "filesToExport": [ "string" ],
            "maxSize": {
               "unit": "string",
               "value": number
            }
         },
         "trainedModelInferenceJobs": {
            "containerLogs": [
               {
                  "allowedAccountIds": [ "string" ],
                  "filterPattern": "string",
                  "logRedactionConfiguration": {
                     "customEntityConfig": {
                        "customDataIdentifiers": [ "string" ]
                     },
                     "entitiesToRedact": [ "string" ]
                  },
                  "logType": "string"
               }
            ],
            "maxOutputSize": {
               "unit": "string",
               "value": number
            }
         },
         "trainedModels": {
            "containerLogs": [
```

```
                {
                   "allowedAccountIds": [ "string" ],
                   "filterPattern": "string",
                   "logRedactionConfiguration": {
                      "customEntityConfig": {
                         "customDataIdentifiers": [ "string" ]
                      },
                      "entitiesToRedact": [ "string" ]
                   },
                   "logType": "string"
                }
             ],
             "containerMetrics": {
                "noiseLevel": "string"
             },
             "maxArtifactSize": {
                "unit": "string",
                "value": number
             }
          }
       }
    },
    "tags": {
       "string" : "string"
    },
    "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationIdentifier

The collaboration ID of the collaboration that contains the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm that was associated to the collaboration.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

createTime

The time at which the configured model algorithm association was created.

Type: Timestamp

description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

membershipIdentifier

The membership ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

name

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

privacyConfiguration

The privacy configuration information for the configured model algorithm association.

Type: PrivacyConfiguration object

tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

updateTime

The most recent time at which the configured model algorithm association was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMLConfiguration

Returns information about a specific ML configuration.

Request Syntax

```
GET /memberships/membershipIdentifier/ml-configurations HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the member that owns the ML configuration you want to return information about.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "createTime": "string",
   "defaultOutputLocation": {
      "destination": {
         "s3Destination": {
            "s3Uri": "string"
         }
      },
```

```
        "roleArn": "string"
    },
    "membershipIdentifier": "string",
    "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

createTime

The time at which the ML configuration was created.

Type: Timestamp

defaultOutputLocation

The Amazon S3 location where ML model output is stored.

Type: MLOutputConfiguration object

membershipIdentifier

The membership ID of the member that owns the ML configuration you requested.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

updateTime

The most recent time at which the ML configuration was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMLInputChannel

Returns information about an ML input channel.

Request Syntax

```
GET /memberships/membershipIdentifier/ml-input-channels/mlInputChannelArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the membership that contains the ML input channel that you want to get.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel that you want to get.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "collaborationIdentifier": "string",
   "configuredModelAlgorithmAssociations": [ "string" ],
   "createTime": "string",
   "description": "string",
   "inputChannel": {
      "dataSource": { ... },
      "roleArn": "string"
   },
   "kmsKeyArn": "string",
   "membershipIdentifier": "string",
   "mlInputChannelArn": "string",
   "name": "string",
   "numberOfFiles": number,
   "numberOfRecords": number,
   "protectedQueryIdentifier": "string",
   "retentionInDays": number,
   "sizeInGb": number,
   "status": "string",
   "statusDetails": {
      "message": "string",
      "statusCode": "string"
   },
   "tags": {
      "string" : "string"
   },
   "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

configuredModelAlgorithmAssociations

The configured model algorithm associations that were used to create the ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

createTime

The time at which the ML input channel was created.

Type: Timestamp

description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

inputChannel

The input channel that was used to create the ML input channel.

Type: InputChannel object

kmsKeyArn

The Amazon Resource Name (ARN) of the KMS key that was used to create the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

membershipIdentifier

The membership ID of the membership that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

name

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

numberOfFiles

The number of files in the ML input channel.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 1000000.

numberOfRecords

The number of records in the ML input channel.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 100000000000.

protectedQueryIdentifier

The ID of the protected query that was used to create the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

retentionInDays

The number of days to keep the data in the ML input channel.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 30.

sizeInGb

The size, in GB, of the ML input channel.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 1000000.

status

The status of the ML input channel.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE`

statusDetails

Details about the status of a resource.

Type: StatusDetails object

tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

updateTime

The most recent time at which the ML input channel was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTrainedModel

Returns information about a trained model.

Request Syntax

```
GET /memberships/membershipIdentifier/trained-models/trainedModelArn?
versionIdentifier=versionIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the member that created the trained model that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

versionIdentifier

The version identifier of the trained model to retrieve. If not specified, the operation returns information about the latest version of the trained model.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationIdentifier": "string",
   "configuredModelAlgorithmAssociationArn": "string",
   "createTime": "string",
   "dataChannels": [
      {
         "channelName": "string",
         "mlInputChannelArn": "string",
         "s3DataDistributionType": "string"
      }
   ],
   "description": "string",
   "environment": {
      "string" : "string"
   },
   "hyperparameters": {
      "string" : "string"
   },
   "incrementalTrainingDataChannels": [
      {
         "channelName": "string",
         "modelName": "string",
         "versionIdentifier": "string"
      }
   ],
   "kmsKeyArn": "string",
   "logsStatus": "string",
   "logsStatusDetails": "string",
   "membershipIdentifier": "string",
   "metricsStatus": "string",
   "metricsStatusDetails": "string",
   "name": "string",
   "resourceConfig": {
      "instanceCount": number,
```

```
      "instanceType": "string",
      "volumeSizeInGB": number
   },
   "status": "string",
   "statusDetails": {
      "message": "string",
      "statusCode": "string"
   },
   "stoppingCondition": {
      "maxRuntimeInSeconds": number
   },
   "tags": {
      "string" : "string"
   },
   "trainedModelArn": "string",
   "trainingContainerImageDigest": "string",
   "trainingInputMode": "string",
   "updateTime": "string",
   "versionIdentifier": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that was used to create the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

createTime

The time at which the trained model was created.

Type: Timestamp

dataChannels

The data channels that were used for the trained model.

Type: Array of ModelTrainingDataChannel objects

Array Members: Minimum number of 1 item. Maximum number of 20 items.

description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

environment

The EC2 environment that was used to create the trained model.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 512.

Key Pattern: `[a-zA-Z_][a-zA-Z0-9_]*`

Value Length Constraints: Minimum length of 1. Maximum length of 512.

Value Pattern: `[\S\s]*`

hyperparameters

The hyperparameters that were used to create the trained model.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `.*`

Value Length Constraints: Minimum length of 1. Maximum length of 2500.

Value Pattern: `.*`

incrementalTrainingDataChannels

Information about the incremental training data channels used to create this version of the trained model. This includes details about the base model that was used for incremental training and the channel configuration.

Type: Array of IncrementalTrainingDataChannelOutput objects

Array Members: Fixed number of 1 item.

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the trained ML model and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

logsStatus

The logs status for the trained model.

Type: String

Valid Values: `PUBLISH_SUCCEEDED | PUBLISH_FAILED`

logsStatusDetails

Details about the logs status for the trained model.

Type: String

membershipIdentifier

The membership ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

metricsStatus

The status of the model metrics.

Type: String

Valid Values: `PUBLISH_SUCCEEDED | PUBLISH_FAILED`

metricsStatusDetails

Details about the metrics status for the trained model.

Type: String

name

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

resourceConfig

The EC2 resource configuration that was used to create the trained model.

Type: ResourceConfig object

status

The status of the trained model.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE | CANCEL_PENDING | CANCEL_IN_PROGRESS | CANCEL_FAILED`

statusDetails

Details about the status of a resource.

Type: StatusDetails object

stoppingCondition

The stopping condition that was used to terminate model training.

Type: StoppingCondition object

tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

trainedModelArn

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

trainingContainerImageDigest

Information about the training image container.

Type: String

trainingInputMode

The input mode that was used for accessing the training data when this trained model was created. This indicates how the training data was made available to the training algorithm.

Type: String

Valid Values: `File | FastFile | Pipe`

updateTime

The most recent time at which the trained model was updated.

Type: Timestamp

versionIdentifier

The version identifier of the trained model. This unique identifier distinguishes this version from other versions of the same trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTrainedModelInferenceJob

Returns information about a trained model inference job.

Request Syntax

```
GET /memberships/membershipIdentifier/trained-model-inference-
jobs/trainedModelInferenceJobArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

Provides the membership ID of the membership that contains the trained model inference job that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

trainedModelInferenceJobArn

Provides the Amazon Resource Name (ARN) of the trained model inference job that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredModelAlgorithmAssociationArn": "string",
   "containerExecutionParameters": {
      "maxPayloadInMB": number
   },
   "createTime": "string",
   "dataSource": {
      "mlInputChannelArn": "string"
   },
   "description": "string",
   "environment": {
      "string" : "string"
   },
   "inferenceContainerImageDigest": "string",
   "kmsKeyArn": "string",
   "logsStatus": "string",
   "logsStatusDetails": "string",
   "membershipIdentifier": "string",
   "metricsStatus": "string",
   "metricsStatusDetails": "string",
   "name": "string",
   "outputConfiguration": {
      "accept": "string",
      "members": [
         {
            "accountId": "string"
         }
      ]
   },
   "resourceConfig": {
      "instanceCount": number,
      "instanceType": "string"
   },
   "status": "string",
   "statusDetails": {
      "message": "string",
      "statusCode": "string"
   },
```

```
   "tags": {
      "string" : "string"
   },
   "trainedModelArn": "string",
   "trainedModelInferenceJobArn": "string",
   "trainedModelVersionIdentifier": "string",
   "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that was used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

containerExecutionParameters

The execution parameters for the model inference job container.

Type: InferenceContainerExecutionParameters object

createTime

The time at which the trained model inference job was created.

Type: Timestamp

dataSource

The data source that was used for the trained model inference job.

Type: ModelInferenceDataSource object

description

The description of the trained model inference job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

environment

The environment variables to set in the Docker container.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 16 items.

Key Length Constraints: Minimum length of 1. Maximum length of 1024.

Key Pattern: `[a-zA-Z_][a-zA-Z0-9_]*`

Value Length Constraints: Minimum length of 1. Maximum length of 10240.

Value Pattern: `[\S\s]*`

inferenceContainerImageDigest

Information about the training container image.

Type: String

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the ML inference job and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

logsStatus

The logs status for the trained model inference job.

Type: String

Valid Values: `PUBLISH_SUCCEEDED | PUBLISH_FAILED`

logsStatusDetails

Details about the logs status for the trained model inference job.

Type: String

membershipIdentifier

The membership ID of the membership that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

metricsStatus

The metrics status for the trained model inference job.

Type: String

Valid Values: `PUBLISH_SUCCEEDED | PUBLISH_FAILED`

metricsStatusDetails

Details about the metrics status for the trained model inference job.

Type: String

name

The name of the trained model inference job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

outputConfiguration

The output configuration information for the trained model inference job.

Type: InferenceOutputConfiguration object

resourceConfig

The resource configuration information for the trained model inference job.

Type: InferenceResourceConfig object

status

The status of the trained model inference job.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | CANCEL_PENDING | CANCEL_IN_PROGRESS | CANCEL_FAILED | INACTIVE`

statusDetails

Details about the status of a resource.

Type: StatusDetails object

tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

trainedModelArn

The Amazon Resource Name (ARN) for the trained model that was used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

trainedModelInferenceJobArn

The Amazon Resource Name (ARN) of the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

trainedModelVersionIdentifier

The version identifier of the trained model used for this inference job. This identifies the specific version of the trained model that was used to generate the inference results.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

updateTime

The most recent time at which the trained model inference job was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTrainingDataset

Returns information about a training dataset.

Request Syntax

```
GET /training-dataset/trainingDatasetArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "createTime": "string",
   "description": "string",
   "name": "string",
   "roleArn": "string",
   "status": "string",
   "tags": {
      "string" : "string"
```

```
    },
    "trainingData": [
       {
          "inputConfig": {
             "dataSource": {
                "glueDataSource": {
                   "catalogId": "string",
                   "databaseName": "string",
                   "tableName": "string"
                }
             },
             "schema": [
                {
                   "columnName": "string",
                   "columnTypes": [ "string" ]
                }
             ]
          },
          "type": "string"
       }
    ],
    "trainingDatasetArn": "string",
    "updateTime": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

createTime

The time at which the training dataset was created.

Type: Timestamp

description

The description of the training dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

name

The name of the training dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

roleArn

The IAM role used to read the training data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

status

The status of the training dataset.

Type: String

Valid Values: `ACTIVE`

tags

The tags that are assigned to this training dataset.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

trainingData

Metadata about the requested training data.

Type: Array of Dataset objects

trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

updateTime

The most recent time at which the training dataset was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAudienceExportJobs

Returns a list of the audience export jobs.

Request Syntax

```
GET /audience-export-job?
audienceGenerationJobArn=audienceGenerationJobArn&maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "audienceExportJobs": [
      {
         "audienceGenerationJobArn": "string",
         "audienceSize": {
            "type": "string",
            "value": number
         },
         "createTime": "string",
         "description": "string",
         "name": "string",
         "outputLocation": "string",
         "status": "string",
         "statusDetails": {
            "message": "string",
            "statusCode": "string"
         },
         "updateTime": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

audienceExportJobs

The audience export jobs that match the request.

Type: Array of AudienceExportJobSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAudienceGenerationJobs

Returns a list of audience generation jobs.

Request Syntax

```
GET /audience-generation-job?
collaborationId=collaborationId&configuredAudienceModelArn=configuredAudienceModelArn&maxResult
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationId

The identifier of the collaboration that contains the audience generation jobs that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that was used for the audience generation jobs that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "audienceGenerationJobs": [
      {
         "audienceGenerationJobArn": "string",
         "collaborationId": "string",
         "configuredAudienceModelArn": "string",
         "createTime": "string",
         "description": "string",
         "name": "string",
         "startedBy": "string",
         "status": "string",
         "updateTime": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

audienceGenerationJobs

The audience generation jobs that match the request.

Type: Array of AudienceGenerationJobSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAudienceModels

Returns a list of audience models.

Request Syntax

```
GET /audience-model?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "audienceModels": [
      {
         "audienceModelArn": "string",
         "createTime": "string",
         "description": "string",
         "name": "string",
```

```
            "status": "string",
            "trainingDatasetArn": "string",
            "updateTime": "string"
        }
    ],
    "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

audienceModels

The audience models that match the request.

Type: Array of AudienceModelSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCollaborationConfiguredModelAlgorithmAssociations

Returns a list of the configured model algorithm associations in a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/configured-model-algorithm-associations?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The collaboration ID of the collaboration that contains the configured model algorithm associations that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "collaborationConfiguredModelAlgorithmAssociations": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmArn": "string",
         "configuredModelAlgorithmAssociationArn": "string",
         "createTime": "string",
         "creatorAccountId": "string",
         "description": "string",
         "membershipIdentifier": "string",
         "name": "string",
         "updateTime": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationConfiguredModelAlgorithmAssociations

The configured model algorithm associations that belong to this collaboration.

Type: Array of CollaborationConfiguredModelAlgorithmAssociationSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCollaborationMLInputChannels

Returns a list of the ML input channels in a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/ml-input-channels?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channels that you want to list.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "collaborationMLInputChannelsList": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmAssociations": [ "string" ],
         "createTime": "string",
         "creatorAccountId": "string",
         "description": "string",
         "membershipIdentifier": "string",
         "mlInputChannelArn": "string",
         "name": "string",
         "status": "string",
         "updateTime": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationMLInputChannelsList

The list of ML input channels that you wanted.

Type: Array of CollaborationMLInputChannelSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCollaborationTrainedModelExportJobs

Returns a list of the export jobs for a trained model in a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/trained-models/trainedModelArn/export-jobs?
maxResults=maxResults&nextToken=nextToken&trainedModelVersionIdentifier=trainedModelVersionIden
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model export jobs that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that was used to create the export jobs that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

trainedModelVersionIdentifier

The version identifier of the trained model to filter export jobs by. When specified, only export jobs for this specific version of the trained model are returned.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationTrainedModelExportJobs": [
      {
         "collaborationIdentifier": "string",
         "createTime": "string",
         "creatorAccountId": "string",
         "description": "string",
         "membershipIdentifier": "string",
         "name": "string",
         "outputConfiguration": {
            "members": [
               {
                  "accountId": "string"
               }
            ]
         },
         "status": "string",
         "statusDetails": {
```

```
            "message": "string",
            "statusCode": "string"
         },
         "trainedModelArn": "string",
         "trainedModelVersionIdentifier": "string",
         "updateTime": "string"
      }
   ],
   "nextToken": "string"
}
```


Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationTrainedModelExportJobs

The exports jobs that exist for the requested trained model in the requested collaboration.

Type: Array of CollaborationTrainedModelExportJobSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCollaborationTrainedModelInferenceJobs

Returns a list of trained model inference jobs in a specified collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/trained-model-inference-jobs?
maxResults=maxResults&nextToken=nextToken&trainedModelArn=trainedModelArn&trainedModelVersionId
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model inference jobs that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that was used to create the trained model inference jobs that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

trainedModelVersionIdentifier

The version identifier of the trained model to filter inference jobs by. When specified, only inference jobs that used this specific version of the trained model are returned.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationTrainedModelInferenceJobs": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmAssociationArn": "string",
         "createTime": "string",
         "creatorAccountId": "string",
         "description": "string",
         "logsStatus": "string",
         "logsStatusDetails": "string",
         "membershipIdentifier": "string",
         "metricsStatus": "string",
         "metricsStatusDetails": "string",
         "name": "string",
         "outputConfiguration": {
            "accept": "string",
            "members": [
               {
                  "accountId": "string"
               }
            ]
```

```
            },
            "status": "string",
            "trainedModelArn": "string",
            "trainedModelInferenceJobArn": "string",
            "trainedModelVersionIdentifier": "string",
            "updateTime": "string"
        }
    ],
    "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationTrainedModelInferenceJobs

The trained model inference jobs that you are interested in.

Type: Array of CollaborationTrainedModelInferenceJobSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCollaborationTrainedModels

Returns a list of the trained models in a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/trained-models?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained models you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "collaborationTrainedModels": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmAssociationArn": "string",
         "createTime": "string",
         "creatorAccountId": "string",
         "description": "string",
         "incrementalTrainingDataChannels": [
            {
               "channelName": "string",
               "modelName": "string",
               "versionIdentifier": "string"
            }
         ],
         "membershipIdentifier": "string",
         "name": "string",
         "status": "string",
         "trainedModelArn": "string",
         "updateTime": "string",
         "versionIdentifier": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationTrainedModels

The trained models in the collaboration that you requested.

Type: Array of CollaborationTrainedModelSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListConfiguredAudienceModels

Returns a list of the configured audience models.

Request Syntax

```
GET /configured-audience-model?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredAudienceModels": [
      {
         "audienceModelArn": "string",
         "configuredAudienceModelArn": "string",
         "createTime": "string",
         "description": "string",
```

```
         "name": "string",
         "outputConfig": {
            "destination": {
               "s3Destination": {
                  "s3Uri": "string"
               }
            },
            "roleArn": "string"
         },
         "status": "string",
         "updateTime": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModels

The configured audience models.

Type: Array of ConfiguredAudienceModelSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListConfiguredModelAlgorithmAssociations

Returns a list of configured model algorithm associations.

Request Syntax

```
GET /memberships/membershipIdentifier/configured-model-algorithm-associations?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The membership ID of the member that created the configured model algorithm associations you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "configuredModelAlgorithmAssociations": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmArn": "string",
         "configuredModelAlgorithmAssociationArn": "string",
         "createTime": "string",
         "description": "string",
         "membershipIdentifier": "string",
         "name": "string",
         "updateTime": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredModelAlgorithmAssociations

The list of configured model algorithm associations.

Type: Array of ConfiguredModelAlgorithmAssociationSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListConfiguredModelAlgorithms

Returns a list of configured model algorithms.

Request Syntax

```
GET /configured-model-algorithms?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredModelAlgorithms": [
      {
         "configuredModelAlgorithmArn": "string",
         "createTime": "string",
         "description": "string",
```

```
            "name": "string",
            "updateTime": "string"
        }
    ],
    "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredModelAlgorithms

The list of configured model algorithms.

Type: Array of ConfiguredModelAlgorithmSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListMLInputChannels

Returns a list of ML input channels.

Request Syntax

```
GET /memberships/membershipIdentifier/ml-input-channels?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of ML input channels to return.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The membership ID of the membership that contains the ML input channels that you want to list.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "mlInputChannelsList": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmAssociations": [ "string" ],
         "createTime": "string",
         "description": "string",
         "membershipIdentifier": "string",
         "mlInputChannelArn": "string",
         "name": "string",
         "protectedQueryIdentifier": "string",
         "status": "string",
         "updateTime": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

mlInputChannelsList

The list of ML input channels that you wanted.

Type: Array of MLInputChannelSummary objects

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Returns a list of tags for a provided resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:((membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/(configured-model-algorithm-association|trained-model|trained-model-inference-job|ml-input-channel))|training-dataset|audience-model|configured-audience-model|audience-generation-job|configured-model-algorithm)/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "tags": {
      "string" : "string"
```

```
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

The tags that are associated with the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTrainedModelInferenceJobs

Returns a list of trained model inference jobs that match the request parameters.

Request Syntax

```
GET /memberships/membershipIdentifier/trained-model-inference-jobs?
maxResults=maxResults&nextToken=nextToken&trainedModelArn=trainedModelArn&trainedModelVersionId
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The membership

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

trainedModelArn

The Amazon Resource Name (ARN) of a trained model that was used to create the trained model inference jobs that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

trainedModelVersionIdentifier

The version identifier of the trained model to filter inference jobs by. When specified, only inference jobs that used this specific version of the trained model are returned.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "trainedModelInferenceJobs": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmAssociationArn": "string",
         "createTime": "string",
         "description": "string",
         "logsStatus": "string",
         "logsStatusDetails": "string",
         "membershipIdentifier": "string",
         "metricsStatus": "string",
         "metricsStatusDetails": "string",
         "name": "string",
         "outputConfiguration": {
            "accept": "string",
            "members": [
               {
                  "accountId": "string"
               }
```

```
            ]
         },
         "status": "string",
         "trainedModelArn": "string",
         "trainedModelInferenceJobArn": "string",
         "trainedModelVersionIdentifier": "string",
         "updateTime": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

trainedModelInferenceJobs

Returns the requested trained model inference jobs.

Type: Array of TrainedModelInferenceJobSummary objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTrainedModels

Returns a list of trained models.

Request Syntax

```
GET /memberships/membershipIdentifier/trained-models?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The membership ID of the member that created the trained models you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "nextToken": "string",
   "trainedModels": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmAssociationArn": "string",
         "createTime": "string",
         "description": "string",
         "incrementalTrainingDataChannels": [
            {
               "channelName": "string",
               "modelName": "string",
               "versionIdentifier": "string"
            }
         ],
         "membershipIdentifier": "string",
         "name": "string",
         "status": "string",
         "trainedModelArn": "string",
         "updateTime": "string",
         "versionIdentifier": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

trainedModels

The list of trained models.

Type: Array of TrainedModelSummary objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTrainedModelVersions

Returns a list of trained model versions for a specified trained model. This operation allows you to view all versions of a trained model, including information about their status and creation details. You can use this to track the evolution of your trained models and select specific versions for inference or further training.

Request Syntax

```
GET /memberships/membershipIdentifier/trained-models/trainedModelArn/versions?
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of trained model versions to return in a single page. The default value is 10, and the maximum value is 100.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The membership identifier for the collaboration that contains the trained model.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token from a previous `ListTrainedModelVersions` request. Use this token to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

status

Filter the results to only include trained model versions with the specified status. Valid values include `CREATE_PENDING`, `CREATE_IN_PROGRESS`, `ACTIVE`, `CREATE_FAILED`, and others.

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE | CANCEL_PENDING | CANCEL_IN_PROGRESS | CANCEL_FAILED`

trainedModelArn

The Amazon Resource Name (ARN) of the trained model for which to list versions.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "trainedModels": [
      {
         "collaborationIdentifier": "string",
         "configuredModelAlgorithmAssociationArn": "string",
         "createTime": "string",
         "description": "string",
         "incrementalTrainingDataChannels": [
            {
               "channelName": "string",
               "modelName": "string",
               "versionIdentifier": "string"
            }
         ],
         "membershipIdentifier": "string",
         "name": "string",
```

```
            "status": "string",
            "trainedModelArn": "string",
            "updateTime": "string",
            "versionIdentifier": "string"
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The pagination token to use in a subsequent `ListTrainedModelVersions` request to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

trainedModels

A list of trained model versions that match the specified criteria. Each entry contains summary information about a trained model version, including its version identifier, status, and creation details.

Type: Array of TrainedModelSummary objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTrainingDatasets

Returns a list of training datasets.

Request Syntax

```
GET /training-dataset?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "trainingDatasets": [
      {
         "createTime": "string",
         "description": "string",
         "name": "string",
```

```
            "status": "string",
            "trainingDatasetArn": "string",
            "updateTime": "string"
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

trainingDatasets

The training datasets that match the request.

Type: Array of TrainingDatasetSummary objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutConfiguredAudienceModelPolicy

Create or update the resource policy for a configured audience model.

Request Syntax

```
PUT /configured-audience-model/configuredAudienceModelArn/policy HTTP/1.1
Content-type: application/json

{
   "configuredAudienceModelPolicy": "string",
   "policyExistenceCondition": "string",
   "previousPolicyHash": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that the resource policy will govern.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

configuredAudienceModelPolicy

The IAM resource policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Required: Yes

policyExistenceCondition

Use this to prevent unexpected concurrent modification of the policy.

Type: String

Valid Values: `POLICY_MUST_EXIST | POLICY_MUST_NOT_EXIST`

Required: No

previousPolicyHash

A cryptographic hash of the contents of the policy used to prevent unexpected concurrent modification of the policy.

Type: String

Length Constraints: Minimum length of 64. Maximum length of 128.

Pattern: `[0-9a-f]+`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredAudienceModelPolicy": "string",
   "policyHash": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModelPolicy

The IAM resource policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

policyHash

A cryptographic hash of the contents of the policy used to prevent unexpected concurrent modification of the policy.

Type: String

Length Constraints: Minimum length of 64. Maximum length of 128.

Pattern: `[0-9a-f]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutMLConfiguration

Assigns information about an ML configuration.

Request Syntax

```
PUT /memberships/membershipIdentifier/ml-configurations HTTP/1.1
Content-type: application/json

{
   "defaultOutputLocation": {
      "destination": {
         "s3Destination": {
            "s3Uri": "string"
         }
      },
      "roleArn": "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the member that is being configured.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

defaultOutputLocation

The default Amazon S3 location where ML output is stored for the specified member.

Type: MLOutputConfiguration object

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartAudienceExportJob

Export an audience of a specified size after you have generated an audience.

Request Syntax

```
POST /audience-export-job HTTP/1.1
Content-type: application/json

{
   "audienceGenerationJobArn": "string",
   "audienceSize": {
      "type": "string",
      "value": number
   },
   "description": "string",
   "name": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that you want to export.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

audienceSize

The size of the generated audience. Must match one of the sizes in the configured audience model.

Type: AudienceSize object

Required: Yes

description

The description of the audience export job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

The name of the audience export job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartAudienceGenerationJob

Information necessary to start the audience generation job.

Request Syntax

```
POST /audience-generation-job HTTP/1.1
Content-type: application/json

{
   "collaborationId": "string",
   "configuredAudienceModelArn": "string",
   "description": "string",
   "includeSeedInOutput": boolean,
   "name": "string",
   "seedAudience": {
      "dataSource": {
         "s3Uri": "string"
      },
      "roleArn": "string",
      "sqlComputeConfiguration": { ... },
      "sqlParameters": {
         "analysisTemplateArn": "string",
         "parameters": {
            "string" : "string"
         },
         "queryString": "string"
      }
   },
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

collaborationId

The identifier of the collaboration that contains the audience generation job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that is used for this audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

description

The description of the audience generation job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

includeSeedInOutput

Whether the seed audience is included in the audience generation output.

Type: Boolean

Required: No

name

The name of the audience generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

seedAudience

The seed audience that is used to generate the audience.

Type: AudienceGenerationJobDataSource object

Required: Yes

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "audienceGenerationJobArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartTrainedModelExportJob

Provides the information necessary to start a trained model export job.

Request Syntax

```
POST /memberships/membershipIdentifier/trained-models/trainedModelArn/export-jobs
 HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string",
   "outputConfiguration": {
      "members": [
         {
            "accountId": "string"
         }
      ]
   },
   "trainedModelVersionIdentifier": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the member that is receiving the exported trained model artifacts.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that you want to export.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the trained model export job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

The name of the trained model export job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

outputConfiguration

The output configuration information for the trained model export job.

Type: TrainedModelExportOutputConfiguration object

Required: Yes

trainedModelVersionIdentifier

The version identifier of the trained model to export. This specifies which version of the trained model should be exported to the specified destination.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartTrainedModelInferenceJob

Defines the information necessary to begin a trained model inference job.

Request Syntax

```
POST /memberships/membershipIdentifier/trained-model-inference-jobs HTTP/1.1
Content-type: application/json

{
   "configuredModelAlgorithmAssociationArn": "string",
   "containerExecutionParameters": {
      "maxPayloadInMB": number
   },
   "dataSource": {
      "mlInputChannelArn": "string"
   },
   "description": "string",
   "environment": {
      "string" : "string"
   },
   "kmsKeyArn": "string",
   "name": "string",
   "outputConfiguration": {
      "accept": "string",
      "members": [
         {
            "accountId": "string"
         }
      ]
   },
   "resourceConfig": {
      "instanceCount": number,
      "instanceType": "string"
   },
   "tags": {
      "string" : "string"
   },
   "trainedModelArn": "string",
   "trainedModelVersionIdentifier": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The membership ID of the membership that contains the trained model inference job.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that is used for this trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: No

containerExecutionParameters

The execution parameters for the container.

Type: InferenceContainerExecutionParameters object

Required: No

dataSource

Defines the data source that is used for the trained model inference job.

Type: ModelInferenceDataSource object

Required: Yes

description

The description of the trained model inference job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

environment

The environment variables to set in the Docker container.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 16 items.

Key Length Constraints: Minimum length of 1. Maximum length of 1024.

Key Pattern: `[a-zA-Z_][a-zA-Z0-9_]*`

Value Length Constraints: Minimum length of 1. Maximum length of 10240.

Value Pattern: `[\S\s]*`

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the ML inference job and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

name

The name of the trained model inference job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

outputConfiguration

Defines the output configuration information for the trained model inference job.

Type: InferenceOutputConfiguration object

Required: Yes

resourceConfig

Defines the resource configuration for the trained model inference job.

Type: InferenceResourceConfig object

Required: Yes

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.

- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that is used for this trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

trainedModelVersionIdentifier

The version identifier of the trained model to use for inference. This specifies which version of the trained model should be used to generate predictions on the input data.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "trainedModelInferenceJobArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

trainedModelInferenceJobArn

The Amazon Resource Name (ARN) of the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

Adds metadata tags to a specified resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource that you want to assign tags.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:((membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/(configured-model-algorithm-association|trained-model|trained-model-inference-job|ml-input-channel))|training-dataset|audience-model|configured-audience-model|audience-generation-job|configured-model-algorithm)/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . _ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UntagResource

Removes metadata tags from a specified resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource that you want to remove tags from.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:((membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/(configured-model-algorithm-association|trained-model|trained-model-inference-job|ml-input-channel))|training-dataset|audience-model|configured-audience-model|audience-generation-job|configured-model-algorithm)/[-a-zA-Z0-9_/.]+`

Required: Yes

tagKeys

The key values of tags that you want to remove.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateConfiguredAudienceModel

Provides the information necessary to update a configured audience model. Updates that impact audience generation jobs take effect when a new job starts, but do not impact currently running jobs.

Request Syntax

```
PATCH /configured-audience-model/configuredAudienceModelArn HTTP/1.1
Content-type: application/json

{
   "audienceModelArn": "string",
   "audienceSizeConfig": {
      "audienceSizeBins": [ number ],
      "audienceSizeType": "string"
   },
   "description": "string",
   "minMatchingSeedSize": number,
   "outputConfig": {
      "destination": {
         "s3Destination": {
            "s3Uri": "string"
         }
      },
      "roleArn": "string"
   },
   "sharedAudienceMetrics": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you want to update.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

audienceModelArn

The Amazon Resource Name (ARN) of the new audience model that you want to use.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: No

audienceSizeConfig

The new audience size configuration.

Type: AudienceSizeConfig object

Required: No

description

The new description of the configured audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

minMatchingSeedSize

The minimum number of users from the seed audience that must match with users in the training data of the audience model.

Type: Integer

Valid Range: Minimum value of 25. Maximum value of 500000.

Required: No

outputConfig

The new output configuration.

Type: ConfiguredAudienceModelOutputConfig object

Required: No

sharedAudienceMetrics

The new value for whether to share audience metrics.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `ALL | NONE`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredAudienceModelArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that was updated.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS Clean Rooms ML API contains several data types that various actions use. This section describes each data type in detail.

> **Note**
>
> The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- AudienceDestination
- AudienceExportJobSummary
- AudienceGenerationJobDataSource
- AudienceGenerationJobSummary
- AudienceModelSummary
- AudienceQualityMetrics
- AudienceSize
- AudienceSizeConfig
- CollaborationConfiguredModelAlgorithmAssociationSummary
- CollaborationMLInputChannelSummary
- CollaborationTrainedModelExportJobSummary
- CollaborationTrainedModelInferenceJobSummary
- CollaborationTrainedModelSummary
- ColumnSchema
- ComputeConfiguration
- ConfiguredAudienceModelOutputConfig
- ConfiguredAudienceModelSummary
- ConfiguredModelAlgorithmAssociationSummary
- ConfiguredModelAlgorithmSummary
- ContainerConfig

- CustomEntityConfig
- Dataset
- DatasetInputConfig
- DataSource
- Destination
- GlueDataSource
- IncrementalTrainingDataChannel
- IncrementalTrainingDataChannelOutput
- InferenceContainerConfig
- InferenceContainerExecutionParameters
- InferenceOutputConfiguration
- InferenceReceiverMember
- InferenceResourceConfig
- InputChannel
- InputChannelDataSource
- LogRedactionConfiguration
- LogsConfigurationPolicy
- MetricDefinition
- MetricsConfigurationPolicy
- MLInputChannelSummary
- MLOutputConfiguration
- ModelInferenceDataSource
- ModelTrainingDataChannel
- PrivacyConfiguration
- PrivacyConfigurationPolicies
- ProtectedQueryInputParameters
- ProtectedQuerySQLParameters
- RelevanceMetric
- ResourceConfig
- S3ConfigMap

- StatusDetails
- StoppingCondition
- TrainedModelArtifactMaxSize
- TrainedModelExportOutputConfiguration
- TrainedModelExportReceiverMember
- TrainedModelExportsConfigurationPolicy
- TrainedModelExportsMaxSize
- TrainedModelInferenceJobsConfigurationPolicy
- TrainedModelInferenceJobSummary
- TrainedModelInferenceMaxOutputSize
- TrainedModelsConfigurationPolicy
- TrainedModelSummary
- TrainingDatasetSummary
- WorkerComputeConfiguration

AudienceDestination

Defines the Amazon S3 bucket where the configured audience is stored.

Contents

s3Destination

The Amazon S3 bucket and path for the configured audience.

Type: S3ConfigMap object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AudienceExportJobSummary

Provides information about the audience export job.

Contents

audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that was exported.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

audienceSize

The size of the generated audience. Must match one of the sizes in the configured audience model.

Type: AudienceSize object

Required: Yes

createTime

The time at which the audience export job was created.

Type: Timestamp

Required: Yes

name

The name of the audience export job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The status of the audience export job.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE`

Required: Yes

updateTime

The most recent time at which the audience export job was updated.

Type: Timestamp

Required: Yes

description

The description of the audience export job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

outputLocation

The Amazon S3 bucket where the audience export is stored.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1285.

Pattern: `s3://.+`

Required: No

statusDetails

Details about the status of a resource.

Type: StatusDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AudienceGenerationJobDataSource

Defines the Amazon S3 bucket where the seed audience for the generating audience is stored.

Contents

roleArn

The ARN of the IAM role that can read the Amazon S3 bucket where the seed audience is stored.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

dataSource

Defines the Amazon S3 bucket where the seed audience for the generating audience is stored. A valid data source is a JSON line file in the following format:

```
{"user_id": "111111"}

{"user_id": "222222"}

...
```

Type: S3ConfigMap object

Required: No

sqlComputeConfiguration

Provides configuration information for the instances that will perform the compute work.

Type: ComputeConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

sqlParameters

The protected SQL query parameters.

Type: ProtectedQuerySQLParameters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AudienceGenerationJobSummary

Provides information about the configured audience generation job.

Contents

audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that was used for this audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the audience generation job was created.

Type: Timestamp

Required: Yes

name

The name of the audience generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The status of the audience generation job.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED`

Required: Yes

updateTime

The most recent time at which the audience generation job was updated.

Type: Timestamp

Required: Yes

collaborationId

The identifier of the collaboration that contains this audience generation job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

description

The description of the audience generation job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

startedBy

The AWS Account that submitted the job.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AudienceModelSummary

Information about the audience model.

Contents

audienceModelArn

The Amazon Resource Name (ARN) of the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the audience model was created.

Type: Timestamp

Required: Yes

name

The name of the audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The status of the audience model.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED`

Required: Yes

trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset that was used for the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

updateTime

The most recent time at which the audience model was updated.

Type: Timestamp

Required: Yes

description

The description of the audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AudienceQualityMetrics

Metrics that describe the quality of the generated audience.

Contents

relevanceMetrics

The relevance scores of the generated audience.

Type: Array of RelevanceMetric objects

Required: Yes

recallMetric

The recall score of the generated audience. Recall is the percentage of the most similar users (by default, the most similar 20%) from a sample of the training data that are included in the seed audience by the audience generation job. Values range from 0-1, larger values indicate a better audience. A recall value approximately equal to the maximum bin size indicates that the audience model is equivalent to random selection.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AudienceSize

The size of the generated audience. Must match one of the sizes in the configured audience model.

Contents

type

Whether the audience size is defined in absolute terms or as a percentage. You can use the `ABSOLUTE` AudienceSize to configure out audience sizes using the count of identifiers in the output. You can use the `Percentage` AudienceSize to configure sizes in the range 1-100 percent.

Type: String

Valid Values: `ABSOLUTE | PERCENTAGE`

Required: Yes

value

Specify an audience size value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20000000.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AudienceSizeConfig

Returns the relevance scores at these audience sizes when used in the GetAudienceGenerationJob for a specified audience generation job and configured audience model.

Specifies the list of allowed `audienceSize` values when used in the StartAudienceExportJob for an audience generation job. You can use the `ABSOLUTE` AudienceSize to configure out audience sizes using the count of identifiers in the output. You can use the `Percentage` AudienceSize to configure sizes in the range 1-100 percent.

Contents

audienceSizeBins

An array of the different audience output sizes.

Type: Array of integers

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Valid Range: Minimum value of 1. Maximum value of 20000000.

Required: Yes

audienceSizeType

Whether the audience output sizes are defined as an absolute number or a percentage.

Type: String

Valid Values: `ABSOLUTE | PERCENTAGE`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

CollaborationConfiguredModelAlgorithmAssociationSummary

Provides summary information about a configured model algorithm in a collaboration.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm that is associated to the collaboration.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the configured model algorithm association was created.

Type: Timestamp

Required: Yes

creatorAccountId

The account ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

membershipIdentifier

The membership ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the configured model algorithm association was updated.

Type: Timestamp

Required: Yes

description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationMLInputChannelSummary

Provides summary information about an ML input channel in a collaboration.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredModelAlgorithmAssociations

The associated configured model algorithms used to create the ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the ML input channel was created.

Type: Timestamp

Required: Yes

creatorAccountId

The account ID of the member who created the ML input channel.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

membershipIdentifier

The membership ID of the membership that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

name

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The status of the ML input channel.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE`

Required: Yes

updateTime

The most recent time at which the ML input channel was updated.

Type: Timestamp

Required: Yes

description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationTrainedModelExportJobSummary

Provides summary information about a trained model export job in a collaboration.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model export job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the trained model export job was created.

Type: Timestamp

Required: Yes

creatorAccountId

The account ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

membershipIdentifier

The membership ID of the member that created the trained model export job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the trained model export job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

outputConfiguration

Information about the output of the trained model export job.

Type: TrainedModelExportOutputConfiguration object

Required: Yes

status

The status of the trained model.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that is being exported.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

updateTime

The most recent time at which the trained model export job was updated.

Type: Timestamp

Required: Yes

description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

statusDetails

Details about the status of a resource.

Type: StatusDetails object

Required: No

trainedModelVersionIdentifier

The version identifier of the trained model that was exported in this job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationTrainedModelInferenceJobSummary

Provides summary information about a trained model inference job in a collaboration.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the trained model inference job was created.

Type: Timestamp

Required: Yes

creatorAccountId

The account ID that created the trained model inference job.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

membershipIdentifier

The membership ID of the membership that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the trained model inference job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

outputConfiguration

Returns output configuration information for the trained model inference job.

Type: InferenceOutputConfiguration object

Required: Yes

status

The status of the trained model inference job.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | CANCEL_PENDING | CANCEL_IN_PROGRESS | CANCEL_FAILED | INACTIVE`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that is used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

trainedModelInferenceJobArn

The Amazon Resource Name (ARN) of the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Required: Yes

updateTime

The most recent time at which the trained model inference job was updated.

Type: Timestamp

Required: Yes

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that is used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: No

description

The description of the trained model inference job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

logsStatus

The trained model inference job logs status.

Type: String

Valid Values: `PUBLISH_SUCCEEDED | PUBLISH_FAILED`

Required: No

logsStatusDetails

Details about the logs status for the trained model inference job.

Type: String

Required: No

metricsStatus

the trained model inference job metrics status.

Type: String

Valid Values: `PUBLISH_SUCCEEDED | PUBLISH_FAILED`

Required: No

metricsStatusDetails

Details about the metrics status for trained model inference job.

Type: String

Required: No

trainedModelVersionIdentifier

The version identifier of the trained model that was used for inference in this job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationTrainedModelSummary

Provides summary information about a trained model in a collaboration.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that is used for this trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the trained model was created.

Type: Timestamp

Required: Yes

creatorAccountId

The account ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

membershipIdentifier

The membership ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The status of the trained model.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE | CANCEL_PENDING | CANCEL_IN_PROGRESS | CANCEL_FAILED`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

updateTime

The most recent time at which the trained model was updated.

Type: Timestamp

Required: Yes

description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

incrementalTrainingDataChannels

Information about the incremental training data channels used to create this version of the trained model.

Type: Array of IncrementalTrainingDataChannelOutput objects

Array Members: Fixed number of 1 item.

Required: No

versionIdentifier

The version identifier of this trained model version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnSchema

Metadata for a column.

Contents

columnName

The name of a column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

columnTypes

The data type of column.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `USER_ID | ITEM_ID | TIMESTAMP | CATEGORICAL_FEATURE | NUMERICAL_FEATURE`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComputeConfiguration

Provides configuration information for the instances that will perform the compute work.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

worker

The worker instances that will perform the compute work.

Type: WorkerComputeConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredAudienceModelOutputConfig

Configuration information necessary for the configure audience model output.

Contents

destination

Defines the Amazon S3 bucket where the configured audience is stored.

Type: AudienceDestination object

Required: Yes

roleArn

The ARN of the IAM role that can write the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredAudienceModelSummary

Information about the configured audience model.

Contents

audienceModelArn

The Amazon Resource Name (ARN) of the audience model that was used to create the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you are interested in.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the configured audience model was created.

Type: Timestamp

Required: Yes

name

The name of the configured audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

outputConfig

The output configuration of the configured audience model.

Type: ConfiguredAudienceModelOutputConfig object

Required: Yes

status

The status of the configured audience model.

Type: String

Valid Values: `ACTIVE`

Required: Yes

updateTime

The most recent time at which the configured audience model was updated.

Type: Timestamp

Required: Yes

description

The description of the configured audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredModelAlgorithmAssociationSummary

Provides summary information about the configured model algorithm association.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm that is being associated.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the configured model algorithm association was created.

Type: Timestamp

Required: Yes

membershipIdentifier

The membership ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the configured model algorithm association was updated.

Type: Timestamp

Required: Yes

description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredModelAlgorithmSummary

Provides summary information about a configured model algorithm.

Contents

configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the configured model algorithm was created.

Type: Timestamp

Required: Yes

name

The name of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the configured model algorithm was updated.

Type: Timestamp

Required: Yes

description

The description of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ContainerConfig

Provides configuration information for the dockerized container where the model algorithm is stored.

Contents

imageUri

The registry path of the docker image that contains the algorithm. Clean Rooms ML currently only supports the `registry/repository[:tag]` image path format. For more information about using images in Clean Rooms ML, see the Sagemaker API reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `.*`

Required: Yes

arguments

The arguments for a container used to run a training job. See How Amazon SageMaker Runs Your Training Image for additional information. For more information, see How Sagemaker runs your training image.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

entrypoint

The entrypoint script for a Docker container used to run a training job. This script takes precedence over the default train processing instructions. See How Amazon SageMaker Runs Your Training Image for additional information. For more information, see How Sagemaker runs your training image.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

metricDefinitions

A list of metric definition objects. Each object specifies the metric name and regular expressions used to parse algorithm logs. AWS Clean Rooms ML publishes each metric to all members' Amazon CloudWatch using IAM role configured in PutMLConfiguration.

Type: Array of MetricDefinition objects

Array Members: Minimum number of 0 items. Maximum number of 40 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CustomEntityConfig

The configuration for defining custom patterns to be redacted from logs and error messages. This is for the CUSTOM config under entitiesToRedact. Both CustomEntityConfig and entitiesToRedact need to be present or not present.

Contents

customDataIdentifiers

Defines data identifiers for the custom entity configuration. Provide this only if CUSTOM redaction is configured.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[a-zA-Z0-9\_\#\=\@/\;\,\-\ \^\$\?\[\]\{\}\|\\\*\+\.\(\)]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Dataset

Defines where the training dataset is located, what type of data it contains, and how to access the data.

Contents

inputConfig

A DatasetInputConfig object that defines the data source and schema mapping.

Type: DatasetInputConfig object

Required: Yes

type

What type of information is found in the dataset.

Type: String

Valid Values: `INTERACTIONS`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DatasetInputConfig

Defines the Glue data source and schema mapping information.

Contents

dataSource

A DataSource object that specifies the Glue data source for the training data.

Type: DataSource object

Required: Yes

schema

The schema information for the training data.

Type: Array of ColumnSchema objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataSource

Defines information about the Glue data source that contains the training data.

Contents

glueDataSource

A GlueDataSource object that defines the catalog ID, database name, and table name for the training data.

Type: GlueDataSource object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Destination

The Amazon S3 location where the exported model artifacts are stored.

Contents

s3Destination

Provides information about an Amazon S3 bucket and path.

Type: S3ConfigMap object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GlueDataSource

Defines the Glue data source that contains the training data.

Contents

databaseName

The Glue database that contains the training data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_]+-)*([a-zA-Z0-9_]+))?`

Required: Yes

tableName

The Glue table that contains the training data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

catalogId

The Glue catalog that contains the training data.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IncrementalTrainingDataChannel

Defines an incremental training data channel that references a previously trained model. Incremental training allows you to update an existing trained model with new data, building upon the knowledge from a base model rather than training from scratch. This can significantly reduce training time and computational costs while improving model performance with additional data.

Contents

channelName

The name of the incremental training data channel. This name is used to identify the channel during the training process and must be unique within the training job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9\.\-_]+`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the base trained model to use for incremental training. This model serves as the starting point for the incremental training process.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

versionIdentifier

The version identifier of the base trained model to use for incremental training. If not specified, the latest version of the trained model is used.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IncrementalTrainingDataChannelOutput

Contains information about an incremental training data channel that was used to create a trained model. This structure provides details about the base model and channel configuration used during incremental training.

Contents

channelName

The name of the incremental training data channel that was used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9\.\-_]+`

Required: Yes

modelName

The name of the base trained model that was used for incremental training.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

versionIdentifier

The version identifier of the trained model that was used for incremental training.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InferenceContainerConfig

Provides configuration information for the inference container.

Contents

imageUri

The registry path of the docker image that contains the inference algorithm. Clean Rooms ML currently only supports the `registry/repository[:tag]` image path format. For more information about using images in Clean Rooms ML, see the Sagemaker API reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InferenceContainerExecutionParameters

Provides execution parameters for the inference container.

Contents

maxPayloadInMB

The maximum size of the inference container payload, specified in MB.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InferenceOutputConfiguration

Configuration information about how the inference output is stored.

Contents

members

Defines the members that can receive inference output.

Type: Array of InferenceReceiverMember objects

Array Members: Fixed number of 1 item.

Required: Yes

accept

The MIME type used to specify the output data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InferenceReceiverMember

Defines who will receive inference results.

Contents

accountId

The account ID of the member that can receive inference results.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InferenceResourceConfig

Defines the resources used to perform model inference.

Contents

instanceType

The type of instance that is used to perform model inference.

Type: String

Valid Values: `ml.r7i.48xlarge | ml.r6i.16xlarge | ml.m6i.xlarge | ml.m5.4xlarge | ml.p2.xlarge | ml.m4.16xlarge | ml.r7i.16xlarge | ml.m7i.xlarge | ml.m6i.12xlarge | ml.r7i.8xlarge | ml.r7i.large | ml.m7i.12xlarge | ml.m6i.24xlarge | ml.m7i.24xlarge | ml.r6i.8xlarge | ml.r6i.large | ml.g5.2xlarge | ml.m5.large | ml.m7i.48xlarge | ml.m6i.16xlarge | ml.p2.16xlarge | ml.g5.4xlarge | ml.m7i.16xlarge | ml.c4.2xlarge | ml.c5.2xlarge | ml.c6i.32xlarge | ml.c4.4xlarge | ml.g5.8xlarge | ml.c6i.xlarge | ml.c5.4xlarge | ml.g4dn.xlarge | ml.c7i.xlarge | ml.c6i.12xlarge | ml.g4dn.12xlarge | ml.c7i.12xlarge | ml.c6i.24xlarge | ml.g4dn.2xlarge | ml.c7i.24xlarge | ml.c7i.2xlarge | ml.c4.8xlarge | ml.c6i.2xlarge | ml.g4dn.4xlarge | ml.c7i.48xlarge | ml.c7i.4xlarge | ml.c6i.16xlarge | ml.c5.9xlarge | ml.g4dn.16xlarge | ml.c7i.16xlarge | ml.c6i.4xlarge | ml.c5.xlarge | ml.c4.xlarge | ml.g4dn.8xlarge | ml.c7i.8xlarge | ml.c7i.large | ml.g5.xlarge | ml.c6i.8xlarge | ml.c6i.large | ml.g5.12xlarge | ml.g5.24xlarge | ml.m7i.2xlarge | ml.c5.18xlarge | ml.g5.48xlarge | ml.m6i.2xlarge | ml.g5.16xlarge | ml.m7i.4xlarge | ml.r6i.32xlarge | ml.m6i.4xlarge | ml.m5.xlarge | ml.m4.10xlarge | ml.r6i.xlarge | ml.m5.12xlarge | ml.m4.xlarge | ml.r7i.2xlarge | ml.r7i.xlarge | ml.r6i.12xlarge | ml.m5.24xlarge | ml.r7i.12xlarge | ml.m7i.8xlarge | ml.m7i.large | ml.r6i.24xlarge | ml.r6i.2xlarge | ml.m4.2xlarge | ml.r7i.24xlarge | ml.r7i.4xlarge | ml.m6i.8xlarge | ml.m6i.large | ml.m5.2xlarge | ml.p2.8xlarge | ml.r6i.4xlarge | ml.m6i.32xlarge | ml.m4.4xlarge | ml.p3.16xlarge | ml.p3.2xlarge | ml.p3.8xlarge`

Required: Yes

instanceCount

The number of instances to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InputChannel

Provides information about the data source that is used to create an ML input channel.

Contents

dataSource

The data source that is used to create the ML input channel.

Type: InputChannelDataSource object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

roleArn

The Amazon Resource Name (ARN) of the role used to run the query specified in the `dataSource` field of the input channel.

Passing a role across AWS accounts is not allowed. If you pass a role that isn't in your account, you get an `AccessDeniedException` error.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InputChannelDataSource

Provides the data source that is used to define an input channel.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

protectedQueryInputParameters

Provides information necessary to perform the protected query.

Type: ProtectedQueryInputParameters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LogRedactionConfiguration

The configuration for log redaction.

Contents

entitiesToRedact

Specifies the entities to be redacted from logs. Entities to redact are "ALL_PERSONALLY_IDENTIFIABLE_INFORMATION", "NUMBERS","CUSTOM". If CUSTOM is supplied or configured, custom patterns (customDataIdentifiers) should be provided, and the patterns will be redacted in logs or error messages.

Type: Array of strings

Array Members: Minimum number of 1 item.

Valid Values: `ALL_PERSONALLY_IDENTIFIABLE_INFORMATION | NUMBERS | CUSTOM`

Required: Yes

customEntityConfig

Specifies the configuration for custom entities in the context of log redaction.

Type: CustomEntityConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LogsConfigurationPolicy

Provides the information necessary for a user to access the logs.

Contents

allowedAccountIds

A list of account IDs that are allowed to access the logs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: Yes

filterPattern

A regular expression pattern that is used to parse the logs and return information that matches the pattern.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

logRedactionConfiguration

Specifies the log redaction configuration for this policy.

Type: LogRedactionConfiguration object

Required: No

logType

Specifies the type of log this policy applies to. The currently supported policies are ALL or ERROR_SUMMARY.

Type: String

Valid Values: `ALL | ERROR_SUMMARY`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MetricDefinition

Information about the model metric that is reported for a trained model.

Contents

name

The name of the model metric.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `.+`

Required: Yes

regex

The regular expression statement that defines how the model metric is reported.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Pattern: `.+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MetricsConfigurationPolicy

Provides the configuration policy for metrics generation.

Contents

noiseLevel

The noise level for the generated metrics.

Type: String

Valid Values: `HIGH | MEDIUM | LOW | NONE`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MLInputChannelSummary

Provides summary information about the ML input channel.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredModelAlgorithmAssociations

The associated configured model algorithms used to create the ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the ML input channel was created.

Type: Timestamp

Required: Yes

membershipIdentifier

The membership ID of the membership that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

name

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The status of the ML input channel.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE`

Required: Yes

updateTime

The most recent time at which the ML input channel was updated.

Type: Timestamp

Required: Yes

description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

protectedQueryIdentifier

The ID of the protected query that was used to create the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MLOutputConfiguration

Configuration information about how the exported model artifacts are stored.

Contents

roleArn

The Amazon Resource Name (ARN) of the service access role that is used to store the model artifacts.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

destination

The Amazon S3 location where exported model artifacts are stored.

Type: Destination object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ModelInferenceDataSource

Defines information about the data source used for model inference.

Contents

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel for this model inference data source.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ModelTrainingDataChannel

Information about the model training data channel. A training data channel is a named data source that the training algorithms can consume.

Contents

channelName

The name of the training data channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9\.\-_]+`

Required: Yes

mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel for this model training data channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

s3DataDistributionType

Specifies how the training data stored in Amazon S3 should be distributed to training instances. This parameter controls the data distribution strategy for the training job:

- `FullyReplicated` - The entire dataset is replicated on each training instance. This is suitable for smaller datasets and algorithms that require access to the complete dataset.
- `ShardedByS3Key` - The dataset is distributed across training instances based on Amazon S3 key names. This is suitable for larger datasets and distributed training scenarios where each instance processes a subset of the data.

Type: String

Valid Values: `FullyReplicated | ShardedByS3Key`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyConfiguration

Information about the privacy configuration for a configured model algorithm association.

Contents

policies

The privacy configuration policies for a configured model algorithm association.

Type: PrivacyConfigurationPolicies object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyConfigurationPolicies

Information about the privacy configuration policies for a configured model algorithm association.

Contents

trainedModelExports

Specifies who will receive the trained model export.

Type: TrainedModelExportsConfigurationPolicy object

Required: No

trainedModelInferenceJobs

Specifies who will receive the trained model inference jobs.

Type: TrainedModelInferenceJobsConfigurationPolicy object

Required: No

trainedModels

Specifies who will receive the trained models.

Type: TrainedModelsConfigurationPolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryInputParameters

Provides information necessary to perform the protected query.

Contents

sqlParameters

The parameters for the SQL type Protected Query.

Type: ProtectedQuerySQLParameters object

Required: Yes

computeConfiguration

Provides configuration information for the workers that will perform the protected query.

Type: ComputeConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

resultFormat

The format in which the query results should be returned. If not specified, defaults to CSV.

Type: String

Valid Values: `CSV | PARQUET`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQuerySQLParameters

The parameters for the SQL type Protected Query.

Contents

analysisTemplateArn

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: No

parameters

The protected query SQL parameters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[0-9a-zA-Z_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 250.

Required: No

queryString

The query string to be submitted.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RelevanceMetric

The relevance score of a generated audience.

Contents

audienceSize

The size of the generated audience. Must match one of the sizes in the configured audience model.

Type: AudienceSize object

Required: Yes

score

The relevance score of the generated audience.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 10.0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceConfig

Information about the EC2 resources that are used to train the model.

Contents

instanceType

The instance type that is used to train the model.

Type: String

Valid Values: `ml.m4.xlarge | ml.m4.2xlarge | ml.m4.4xlarge | ml.m4.10xlarge | ml.m4.16xlarge | ml.g4dn.xlarge | ml.g4dn.2xlarge | ml.g4dn.4xlarge | ml.g4dn.8xlarge | ml.g4dn.12xlarge | ml.g4dn.16xlarge | ml.m5.large | ml.m5.xlarge | ml.m5.2xlarge | ml.m5.4xlarge | ml.m5.12xlarge | ml.m5.24xlarge | ml.c4.xlarge | ml.c4.2xlarge | ml.c4.4xlarge | ml.c4.8xlarge | ml.p2.xlarge | ml.p2.8xlarge | ml.p2.16xlarge | ml.p4d.24xlarge | ml.p4de.24xlarge | ml.p5.48xlarge | ml.c5.xlarge | ml.c5.2xlarge | ml.c5.4xlarge | ml.c5.9xlarge | ml.c5.18xlarge | ml.c5n.xlarge | ml.c5n.2xlarge | ml.c5n.4xlarge | ml.c5n.9xlarge | ml.c5n.18xlarge | ml.g5.xlarge | ml.g5.2xlarge | ml.g5.4xlarge | ml.g5.8xlarge | ml.g5.16xlarge | ml.g5.12xlarge | ml.g5.24xlarge | ml.g5.48xlarge | ml.trn1.2xlarge | ml.trn1.32xlarge | ml.trn1n.32xlarge | ml.m6i.large | ml.m6i.xlarge | ml.m6i.2xlarge | ml.m6i.4xlarge | ml.m6i.8xlarge | ml.m6i.12xlarge | ml.m6i.16xlarge | ml.m6i.24xlarge | ml.m6i.32xlarge | ml.c6i.xlarge | ml.c6i.2xlarge | ml.c6i.8xlarge | ml.c6i.4xlarge | ml.c6i.12xlarge | ml.c6i.16xlarge | ml.c6i.24xlarge | ml.c6i.32xlarge | ml.r5d.large | ml.r5d.xlarge | ml.r5d.2xlarge | ml.r5d.4xlarge | ml.r5d.8xlarge | ml.r5d.12xlarge | ml.r5d.16xlarge | ml.r5d.24xlarge | ml.t3.medium | ml.t3.large | ml.t3.xlarge | ml.t3.2xlarge | ml.r5.large | ml.r5.xlarge | ml.r5.2xlarge | ml.r5.4xlarge | ml.r5.8xlarge | ml.r5.12xlarge | ml.r5.16xlarge | ml.r5.24xlarge | ml.c7i.large | ml.c7i.xlarge | ml.c7i.2xlarge | ml.c7i.4xlarge | ml.c7i.8xlarge | ml.c7i.12xlarge | ml.c7i.16xlarge | ml.c7i.24xlarge | ml.c7i.48xlarge | ml.m7i.large | ml.m7i.xlarge | ml.m7i.2xlarge | ml.m7i.4xlarge | ml.m7i.8xlarge | ml.m7i.12xlarge | ml.m7i.16xlarge | ml.m7i.24xlarge | ml.m7i.48xlarge | ml.r7i.large`

```
| ml.r7i.xlarge | ml.r7i.2xlarge | ml.r7i.4xlarge | ml.r7i.8xlarge |
ml.r7i.12xlarge | ml.r7i.16xlarge | ml.r7i.24xlarge | ml.r7i.48xlarge
| ml.g6.xlarge | ml.g6.2xlarge | ml.g6.4xlarge | ml.g6.8xlarge |
ml.g6.12xlarge | ml.g6.16xlarge | ml.g6.24xlarge | ml.g6.48xlarge |
ml.g6e.xlarge | ml.g6e.2xlarge | ml.g6e.4xlarge | ml.g6e.8xlarge |
ml.g6e.12xlarge | ml.g6e.16xlarge | ml.g6e.24xlarge | ml.g6e.48xlarge
| ml.p5en.48xlarge | ml.p3.2xlarge | ml.p3.8xlarge | ml.p3.16xlarge |
ml.p3dn.24xlarge
```

Required: Yes

volumeSizeInGB

The maximum size of the instance that is used to train the model.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 8192.

Required: Yes

instanceCount

The number of resources that are used to train the model.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3ConfigMap

Provides information about an Amazon S3 bucket and path.

Contents

s3Uri

The Amazon S3 location URI.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1285.

Pattern: `s3://.+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatusDetails

Details about the status of a resource.

Contents

message

The error message that was returned. The message is intended for human consumption and can change at any time. Use the `statusCode` for programmatic error handling.

Type: String

Required: No

statusCode

The status code that was returned. The status code is intended for programmatic error handling. Clean Rooms ML will not change the status code for existing error conditions.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StoppingCondition

The criteria used to stop model training.

Contents

maxRuntimeInSeconds

The maximum amount of time, in seconds, that model training can run before it is terminated.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2419200.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelArtifactMaxSize

Specifies the maximum size limit for trained model artifacts. This configuration helps control storage costs and ensures that trained models don't exceed specified size constraints. The size limit applies to the total size of all artifacts produced by the training job.

Contents

unit

The unit of measurement for the maximum artifact size. Valid values include common storage units such as bytes, kilobytes, megabytes, gigabytes, and terabytes.

Type: String

Valid Values: GB

Required: Yes

value

The numerical value for the maximum artifact size limit. This value is interpreted according to the specified unit.

Type: Double

Valid Range: Minimum value of 0.01. Maximum value of 10.0.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelExportOutputConfiguration

Information about the output of the trained model export job.

Contents

members

The members that will received the exported trained model output.

Type: Array of TrainedModelExportReceiverMember objects

Array Members: Fixed number of 1 item.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelExportReceiverMember

Provides information about the member who will receive trained model exports.

Contents

accountId

The account ID of the member who will receive trained model exports.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelExportsConfigurationPolicy

Information about how the trained model exports are configured.

Contents

filesToExport

The files that are exported during the trained model export job.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Valid Values: `MODEL | OUTPUT`

Required: Yes

maxSize

The maximum size of the data that can be exported.

Type: TrainedModelExportsMaxSize object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelExportsMaxSize

The maximum size of the trained model metrics that can be exported. If the trained model metrics dataset is larger than this value, it will not be exported.

Contents

unit

The unit of measurement for the data size.

Type: String

Valid Values: GB

Required: Yes

value

The maximum size of the dataset to export.

Type: Double

Valid Range: Minimum value of 0.01. Maximum value of 10.0.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelInferenceJobsConfigurationPolicy

Provides configuration information for the trained model inference job.

Contents

containerLogs

The logs container for the trained model inference job.

Type: Array of LogsConfigurationPolicy objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

maxOutputSize

The maximum allowed size of the output of the trained model inference job.

Type: TrainedModelInferenceMaxOutputSize object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelInferenceJobSummary

Provides information about the trained model inference job.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the trained model inference job was created.

Type: Timestamp

Required: Yes

membershipIdentifier

The membership ID of the membership that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the trained model inference job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

outputConfiguration

The output configuration information of the trained model job.

Type: InferenceOutputConfiguration object

Required: Yes

status

The status of the trained model inference job.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | CANCEL_PENDING | CANCEL_IN_PROGRESS | CANCEL_FAILED | INACTIVE`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model that is used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

trainedModelInferenceJobArn

The Amazon Resource Name (ARN) of the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Required: Yes

updateTime

The most recent time at which the trained model inference job was updated.

Type: Timestamp

Required: Yes

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that is used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: No

description

The description of the trained model inference job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

logsStatus

The log status of the trained model inference job.

Type: String

Valid Values: PUBLISH_SUCCEEDED | PUBLISH_FAILED

Required: No

logsStatusDetails

Details about the log status for the trained model inference job.

Type: String

Required: No

metricsStatus

The metric status of the trained model inference job.

Type: String

Valid Values: PUBLISH_SUCCEEDED | PUBLISH_FAILED

Required: No

metricsStatusDetails

Details about the metrics status for the trained model inference job.

Type: String

Required: No

trainedModelVersionIdentifier

The version identifier of the trained model that was used for inference in this job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelInferenceMaxOutputSize

Information about the maximum output size for a trained model inference job.

Contents

unit

The measurement unit to use.

Type: String

Valid Values: GB

Required: Yes

value

The maximum output size value.

Type: Double

Valid Range: Minimum value of 0.01. Maximum value of 50.0.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelsConfigurationPolicy

The configuration policy for the trained models.

Contents

containerLogs

The container for the logs of the trained model.

Type: Array of LogsConfigurationPolicy objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

containerMetrics

The container for the metrics of the trained model.

Type: MetricsConfigurationPolicy object

Required: No

maxArtifactSize

The maximum size limit for trained model artifacts as defined in the configuration policy. This setting helps enforce consistent size limits across trained models in the collaboration.

Type: TrainedModelArtifactMaxSize object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainedModelSummary

Summary information about the trained model.

Contents

collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that was used to create this trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the trained model was created.

Type: Timestamp

Required: Yes

membershipIdentifier

The membership ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The status of the trained model.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE | CANCEL_PENDING | CANCEL_IN_PROGRESS | CANCEL_FAILED`

Required: Yes

trainedModelArn

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

updateTime

The most recent time at which the trained model was updated.

Type: Timestamp

Required: Yes

description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

incrementalTrainingDataChannels

Information about the incremental training data channels used to create this version of the trained model.

Type: Array of IncrementalTrainingDataChannelOutput objects

Array Members: Fixed number of 1 item.

Required: No

versionIdentifier

The version identifier of this trained model version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

TrainingDatasetSummary

Provides information about the training dataset.

Contents

createTime

The time at which the training dataset was created.

Type: Timestamp

Required: Yes

name

The name of the training dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The status of the training dataset.

Type: String

Valid Values: `ACTIVE`

Required: Yes

trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

updateTime

The most recent time at which the training dataset was updated.

Type: Timestamp

Required: Yes

description

The description of the training dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WorkerComputeConfiguration

Configuration information about the compute workers that perform the transform job.

Contents

number

The number of compute workers that are used.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 400.

Required: No

type

The instance type of the compute workers that are used.

Type: String

Valid Values: `CR.1X | CR.4X`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400