

Exercise 2: Data Attribute Recommendation

Step 1: Get OAuth Access Token for Data Attribute Recommendation via Web Browser

To get your OAuth access token you will need the values listed below from the service key you have download from the booster.

The screenshot shows the SAP Cloud Platform Subaccount interface. On the left, there's a sidebar with 'Subaccount: Workshop_DAR_LAC - Instances and Subscriptions'. In the center, there's a 'Credentials' panel for the service 'default_data-attribute-recommendation'. The JSON content of the service key is displayed, with several lines highlighted in red:

```
1  [
2    "url": "https://aiservices-dar.cfapps.br10.hana.ondemand.com",
3    "swagger": {
4      "dm": "https://aiservices-dar.cfapps.br10.hana.ondemand.com/data-manager/doc/ui",
5      "inference": "https://aiservices-dar.cfapps.br10.hana.ondemand.com/inference/doc/ui",
6      "model": "https://aiservices-dar.cfapps.br10.hana.ondemand.com/model-manager/doc/ui"
7    },
8    "user": {
9      "clientid": "4b-39ab890e-7081-4f2b-9cea-d733cfeca463",
10     "clientsecret": "54de07a22-4090-4f59-a0a0
-8232df5d6159c1711d45d2a4ewP0LAZTsnghgHOLgyTCxrogB1B84=",
11     "url": "https://mk0kcc1cl1sqmgnmk.authentication.br10.hana.ondemand.com",
12   },
13   "identityprovider": "5178897c-a2df-44af-a7b8-43f08550787d",
14   "tenantid": "5178897c-a2df-44af-a7b8-43f08550787d",
15   "tenantmode": "dedicated",
16   "apiurl": "https://api.authentication.br10.hana.ondemand.com",
17   "apiurl": "https://api.authentication.br10.hana.ondemand.com",
18   "verificationkey": "-----BEGIN PUBLIC KEY-----\nMIIBIjANBgkqhkiGhIGjwBQFADQFAOCQBAHIIIBCgxCQEAwEZQKpkXaoF
-----END PUBLIC KEY-----"
```

Step 2: Get OAuth access token

1. Add `/oauth/token?grant_type=client_credentials` to the `url` value (from inside the `uaa` section of the service key), paste it in any web browser and choose **Enter**.
2. Enter the `clientid` value from your service key as **Username**.
3. Enter the `clientsecret` value from your service key as **Password**.
4. Click **Sign in** or **OK** (depending on the web browser you work with).

The screenshot shows the SAP Cloud Platform Subaccount interface for 'Workshop_DAR_LAC'. It displays the service details for 'default_data-attribute-recommendation' with the following information:

- Instance ID:** 39ab890e-7081-4f2b-9cea-d733cfeca463
- Service:** Data Attribute Recommendation
- Plan:** standard
- Runtime Environment:** Cloud Foundry
- Created On:** 23 Apr 2025
- Changed On:** 23 Apr 2025
- Created By:** tomaz.sauter@sap.com

The 'Credentials' section shows the JSON configuration for the service, with the 'Swagger UI' endpoint highlighted in red:

```

1  {
2    "url": "https://aiservices-dar-cfapps.br10.hana.ondemand.com",
3    "swagger": {
4      "ui": "https://aiservices-dar-cfapps.br10.hana.ondemand.com/inference/doc/ui",
5      "inference": "https://aiservices-dar-cfapps.br10.hana.ondemand.com/inference/doc/ui",
6      "mm": "https://aiservices-dar-cfapps.br10.hana.ondemand.com/model-manager/doc/ui"
7    },
8    "base": {
9      "clientid": "sb-39ab890e-7081-4f2b-9cea-d733cfeca463|b23375|dar-std-production|b21962",
10     "clientsecret": "54de7e22-4f90-4f59-abb8
-3232df5d5159-1f71c45492-a4e9b0a27sngnholgy7cxog8184=",
11     "url": "https://internal-xss-authentication.br10.hana.ondemand.com",
12     "identityzone": "mekqcslas5ognkx",
13     "identityzonelid": "5178897c-2edf-44af-a708-43f08556787d",
14     "tenantid": "5178897c-2edf-44af-a708-43f08556787d",
15     "tenantname": "mekqcslas5ognkx",
16     "shurl": "https://internal-xss-authentication.br10.hana.ondemand.com",
17     "apiurl": "https://api.authentication.br10.hana.ondemand.com",
18     "verificationkey": "... BEGIN PUBLIC KEY
-----QFACDQ8AHM1BcgcAQUEAwE20pkKaqF
+unHwzXauVY77zZf1ew=..."
}

```

Buttons at the bottom right of the credentials panel include 'Copy JSON', 'Download', and 'Close'.

For this tutorial, copy the URL of the Swagger UI for dm and open it in a browser tab.

To be able to use the Swagger UI endpoints, you need to authorize yourself. In the top right corner, click **Authorize**.

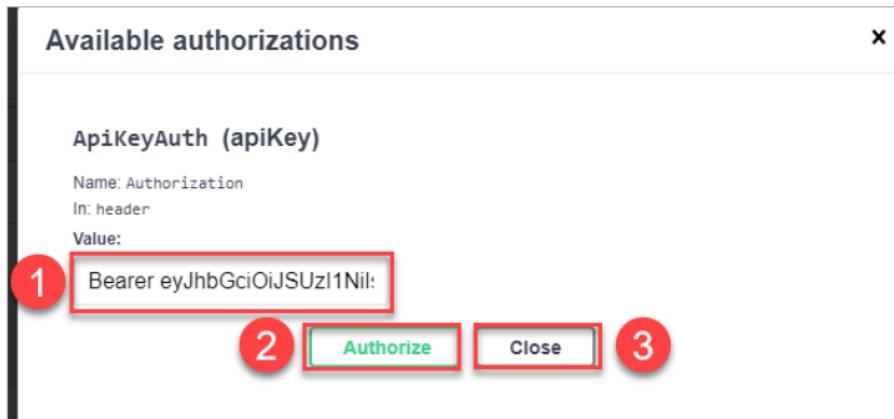
The Swagger UI interface for the Data Manager service shows the following details:

- Title:** Data Manager service for Data Attribute Recommendation 3.0.0 OAS3
- Description:** Data Manager enables upload of training data to the Data Attribute Recommendation service. Training data consists of a dataset schema and a dataset, both of which are required to train a model using Data Attribute Recommendation Model Manager service.
- Servers:** /data-manager/api/v3/doc
- Authorization:** A green 'Authorize' button with a lock icon is highlighted with a red box.
- Documentation:** Swagger documentation of the API for the application.
- DatasetSchemas:** Dataset schemas define the structure of a data set.
- Datasets:** Datasets store training data structured according to a dataset schema.

Get the **access_token** value created in the previous step then add **Bearer** (with capitalized “B”) in front of it, and enter in the **Value** field.

The screenshot shows the 'Value' input field for the 'access_token' parameter. The placeholder text '1 | Bearer <access_token>' is visible.

Click **Authorize** and then click **Close**.



3.2

Create dataset schema

Now, you need to create a new dataset schema. A dataset schema describes the structure of datasets.

Use the following dataset schema:

```
{  
  "features": [  
    {  
      "label": "BUKRS",  
      "type": "CATEGORY"  
    },  
    {  
      "label": "BELNR",  
      "type": "CATEGORY"  
    },  
    {  
      "label": "GJAHR",  
      "type": "NUMBER"  
    },  
    {  
      "label": "BUZEI",  
      "type": "NUMBER"  
    },  
    {  
      "label": "KOART",  
      "type": "CATEGORY"  
    },  
    {  
      "label": "WRBTR",  
      "type": "NUMBER"  
    },  
    {  
      "label": "LIFNR",  
      "type": "CATEGORY"  
    },  
    {  
      "label": "BLART",  
      "type": "CATEGORY"  
    },  
    {  
      "label": "BUDAT",  
      "type": "CATEGORY"  
    }  
  ]  
}
```

```

        },
        {
            "label": "MWSKZ",
            "type": "CATEGORY"
        }
    ],
    "labels": [
        {
            "label": "HKONT",
            "type": "CATEGORY"
        }
    ],
    "businessBlueprintFields": [
        {
            "label": "SHKZG",
            "type": "CATEGORY"
        },
        {
            "label": "BUZID",
            "type": "CATEGORY"
        },
        {
            "label": "BSCHL",
            "type": "CATEGORY"
        },
        {
            "label": "STBLG",
            "type": "CATEGORY"
        }
    ],
    "name": "ior-dataset-schema"
}

```

The schema is divided into **features** and **labels**. The features are the inputs for the machine learning model whereas the labels are the fields that will be predicted. Thus, this schema provides as input training fields such as BUKRS for company code and wants to predict G/L accounts (HKONT).

To create the dataset schema, proceed as follows:

1. In Swagger UI, expand the endpoint **POST /datasetSchemas** by clicking on it. Then click **Try it out.**

DatasetSchemas Dataset schemas define the structure of a data set

GET /datasetSchemas Read all dataset schemas

POST /datasetSchemas Create a new dataset schema

Create a new dataset schema

Parameters

No parameters

Request body required

Definition of the new dataset schema

Example Value | Schema

```
{
  "features": [
    {
      "label": "string",
      "type": "TEXT"
    }
  ],
  "labels": [
    {
      "label": "string",
      "type": "TEXT"
    }
  ],
  "businessBlueprintFields": [
    {
      "label": "string",
      "type": "TEXT"
    }
  ],
  "name": "string"
}
```

Try it out

application/json

- Copy the above dataset schema into the text area. Then click **Execute** to create it.

POST /datasetSchemas Create a new dataset schema

Create a new dataset schema

Parameters

No parameters

Request body required

Definition of the new dataset schema

```
{
  "features": [
    {
      "label": "BUKRS",
      "type": "CATEGORY"
    },
    {
      "label": "BELNR",
      "type": "CATEGORY"
    },
    {
      "label": "GJAHR",
      "type": "NUMBER"
    },
    {
      "label": "BUZEI",
      "type": "NUMBER"
    }
  ]
}
```

Execute

- Further below, you find the response of the service. The response includes a representation of dataset schema that was just created. Additionally, the dataset schema received an **id**. Copy it locally as you'll need it in the next step.

Datasets Datasets store training data structured according to a dataset schema

GET /datasets Read all datasets

POST /datasets Create a new dataset

Create a new dataset

Parameters

No parameters

Request body required

application/json

Definition of the new dataset

Example Value | Schema

```
{ "datasetSchemaId": "4739280c-e4a4-4e11-a3b1-169b643e05ad", "name": "my_dataset" }
```

2. In the text area, replace the parameter `datasetSchemaId` with the `id` that you copied from the previous step and replace the parameter `name` with an appropriate name for your dataset, `ior_tutorial_dataset`, for example. Then click **Execute** to create the dataset.

POST /datasets Create a new dataset

Create a new dataset

Parameters

No parameters

Request body required

application/json

Definition of the new dataset

```
{ "datasetSchemaId": "56fd0ae6-0143-4e01-91c2-bab8b110e7ee", "name": "ior_tutorial_dataset" }
```

Cancel

Execute

3. In the response of the service, you find the `id` of your dataset. Copy it locally as you'll need it in the next steps. Additionally, you find the `status` of the dataset. The status is `NO_DATA` as no data file has been uploaded yet.

In Swagger UI, proceed as follows to upload to the data:

1. Expand the endpoint **POST /datasets/{id}/data** by clicking on it. Then click **Try it out**.

Datasets Datasets store training data structured according to a dataset schema

GET /datasets Read all datasets

POST /datasets Create a new dataset

POST /datasets/{id}/data Upload data to the dataset with the provided id, that has no data yet. Data upload triggers validation process. If data is valid then it gets status 'SUCCEEDED' and is available to be used in new training jobs. If dataset has data already requester will get 409 response code

Upload data to the dataset with the provided id, that has no data yet. Data upload triggers validation process. If data is valid then it gets status 'SUCCEEDED' and is available to be used in new training jobs. If dataset has data already requester will get 409 response code

Parameters

Name Description

id * required string(\$uuid) ID of dataset
(path)

Request body required

Example values are not available for application/octet-stream media types.

Try it out

1. Fill the parameter **id** with the **id** of your dataset that you previously copied.
2. Click **Choose File** below the parameter **Request body**. In the dialog that opens, select the IOR dataset that you just downloaded. Then click **Execute** to upload the data.

POST /datasets/{id}/data Upload data to the dataset with the provided id, that has no data yet. Data upload triggers validation process. If data is valid then it gets status 'SUCCEEDED' and is available to be used in new training jobs. If dataset has data already requester will get 409 response code

Upload data to the dataset with the provided id, that has no data yet. Data upload triggers validation process. If data is valid then it gets status 'SUCCEEDED' and is available to be used in new training jobs. If dataset has data already requester will get 409 response code

Parameters

Name Description

id * required string(\$uuid) ID of dataset
(path)

d22aabf-565b-4610-8ae5-91840aa2e0cb

Request body required

Choose File Dataset_IOR.csv

Execute

In the response, you'll see that the status of your dataset has changed to **VALIDATING**. The service is now validating the data that you have uploaded.

Responses

```
curl -X POST "https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/data-manager/api/v3/datasets/d22aabf-565b-4610-8ae5-91840aa2e0cb/data" -H "accept: application/json" -H "authorization: Bearer eyJhbGciOiJSUzIiNl5imprds161mhdhB018vZn10TRKYThcmhbC5hDxRozW5eaUmNndg1vb151czewLnhbhMeub25kZhbmQuv29tL3rvav2vUx2leXvILCraM01jKzNzhdh0Elmp3dCir2XxLTLWNgMjye05isInM5C16IkpxVC39 eyJqdGkiO131zmExjZmTQ9YzE0W2K0d2z7jM0Y1Yz12M0Kys1smV4d9hdhryTj071mWaocuF2Y0Vj1j01wNvQUE1Lc2z0hjy2Wvdn50wQ1j03t0M2LzTK4yV01M63LtpyTAtYjdhcsySzj2h2zE9yjB101LLC626401j1j1j5MGRH0HRYamrs11w1c2vYdlj24luw30bbw1awj0D11HfZp1b96fR1D6W4LbU3dPfHv1Tgq1D345wNqyQ874h24j44yVnNtI651qoG1yG2y4l4V7w017RyFqk9r9hH3L944DyDzvqoH3YJ2zD0hY0FqQYUfZ0861c93401zI1j38uWqF0JkM13d0b9d6A3qDqkVf5MfN0y5k2z6D9lO7LZ1L1b5j19Qh1c12C1473Y93z06m0j8z72z5900DkzLr1YtYjh20C04zjY4M2QANj11m6lhyjy3NjMxfGhcl1zidqQ1bk0pwmhYj3gMNTc31x12Y21k1j9c12t107m0z2nyGuNDQ5jy02Ne1M12zg20c200m0DyNTj1nt2N2YyK38kLxyawFxtN00u3Ny1sMnf6CCTG7m1L1tkzKTH2pJ01L70Q0TfHNgvWn11m2wALThenjz2Dp2Fjuyf1n1j2zRzN82GfYjXN0ZC10c1alNbCF1NDA1kzG1L1Cnmfud99e8x8L1j01y12Xp2M50x2NyZrUrbpHyz11k1cm2X3m0zY161j12j12jNKnWeiy1iajaf0jx0jijuyfcyNzY011j1eM01j0j2NtYmUsj1st1cy16j0hdiB01vBzvM10tRkYtHecml1bcShzDx0z750aNhgdVb1s1j2zEvJmhbaEu25k2x1hbmQuy29tL29hdxR013rvav2w1v1em1k1j01z0m1jNm150Gn1NTBjhy00MewL13YAT0tMyMwGwly11iv1yX01jpb1nvHyS1s1mRhcl1z0dQqt1dp1jpmhVjQwMTC31m1aC1s1m1L1tkzMTzNjbl1j0l7Q00tttNgVN11jzH4L1Thenjgz2Dg2kjuy1f1njc2K2N82GfYjXN0ZC10c1lhbhLh2ad97jreM4IghpuVpxah0CbzxrmKqcV_a4Tp10c9p3g" -H "Content-Type: image/png" -d {}
```

Request URL

```
https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/data-manager/api/v3/datasets/d22aabf-565b-4610-8ae5-91840aa2e0cb/data
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "createdAt": "2022-05-10T09:06:23.925022+00:00", "datasetSchema": "56f0a0e6-0143-4c01-91c2-bab8b10e0cb", "id": "d22aabf-565b-4610-8ae5-91840aa2e0cb", "name": "for tutorial dataset", "status": "PENDING", "validationMessage": "" }</pre> <p>Response headers</p> <pre>content-length: 225 content-type: application/json date: Tue10 May 2022 09:10:40 GMT server: strict-transport-security: max-age=31536000; includeSubDomains; preload; x-correlation-id: 1e52b7d6-d838-4773-41ba-593d91403cb3 x-vcap-request-id: 1e52b7d6-d838-4773-41ba-593d91403cb3</pre>

You have successfully uploaded data to your dataset.

3.5

Check dataset status

To check the validation status of your data, proceed as follows:

1. Expand the endpoint [GET /datasets/{id}](#) by clicking on it. Then click **Try it out**.

Datasets Datasets store training data structured according to a dataset schema

GET	/datasets	Read all datasets
POST	/datasets	Create a new dataset
POST	/datasets/{id}/data	Upload data to the dataset with the provided id. That has no data yet. Data upload triggers validation process. If data is valid then it gets status 'SUCCEEDED' and is available to be used in new training jobs. If dataset has data already requester will get 409 response code
GET	/datasets/{id}	Read the dataset with the provided id

Read the dataset with the provided id

Parameters

Name	Description
id * required	ID of dataset <code>string(\$uuid)</code> (path) id - ID of dataset

Try it out

Fill the parameter **id** with the **id** of your dataset. Click **Execute**.

The screenshot shows the SAP Cloud Platform Studio API Explorer interface. A GET request is being made to the endpoint `/datasets/{id}`. The parameter `{id}` is set to the value `d22aabf-565b-4610-8ae5-91840aa2e0cb`, which is highlighted with a red box. At the bottom of the screen, the **Execute** button is also highlighted with a red box.

In the response of the service, you find the status of your dataset. If the status is still **VALIDATING**, check back in a few minutes. If the status is **SUCCEEDED**, your data is valid. In case the status is either **INVALID_DATA** or **VALIDATION_FAILED**, create a new dataset and upload the data once again.

The screenshot shows the SAP Cloud Platform Studio API Explorer displaying the response details after executing the dataset creation. It includes:

- Curl:** The full cURL command used for the request.
- Request URL:** The URL for the dataset creation: `https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/data-manager/api/v3/datasets/d22aabf-565b-4610-8ae5-91840aa2e0cb`.
- Server response:**
 - Code:** 200
 - Details:** Response body

```
{
  "createdAt": "2022-05-10T09:06:23.925022+00:00",
  "datasetSchemaId": "56f0a0e6-0143-4e01-91c2-bab8b110e7ee",
  "id": "d22aabf-565b-4610-8ae5-91840aa2e0cb",
  "name": "low tutorial dataset",
  "status": "SUCCEEDED"
}
```

A red box highlights the `status: SUCCEEDED` field in the response body. There are **Download** and **Copy** buttons next to the response body.
- Response headers:**

```
content-length: 247
content-type: application/json
date: Tue 10 May 2022 09:12:58 GMT
server: Apache/2.4.41.1 OpenSSL/1.1.1l-fips PHP/8.0.12
strict-transport-security: max-age=31536000; includeSubDomains; preload;
x-correlation-id: 4429af1c-2d4b-4ffd-7050-a293ab8afdc3
x-vcap-request-id: 4429af1c-2d4b-4ffd-7050-a293ab8afdc3
```

You have successfully created a dataset and uploaded data. You can now use the dataset to train a machine learning model.

Step 4: Use the Invoice Object Recommendation (IOR) Business Blueprint to Train a Machine Learning Model

4.1

Authorize Swagger UI

In the service key you created for Data Attribute Recommendation in the previous step you will find a section called swagger (as highlighted in the image below) with three entries, called dm (data manager), mm (model manager) and inference. You'll use all three Swagger UIs throughout the exercise.

The screenshot shows the SAP Cloud Platform Subaccount interface for the 'Workshop_DAR_LAC - Instances and Subscriptions' subaccount. On the left, there are tabs for 'Subscriptions (0)', 'Instances (1)', and 'Environments (1)'. The 'Instances (1)' tab is selected, showing one instance named 'default_data-attribute-recommendation'. On the right, there are sections for 'Credentials', 'Plan', and 'Runtime Environment'. The 'Credentials' section shows a dropdown set to 'Form' and a JSON tab containing the following JSON code:

```
1  "url": "https://aiservices-dar-cfapps.br10.hana.ondemand.com",
2  "swagger": {
3    "dm": "https://aiservices-dar-cfapps.br10.hana.ondemand.com/data-manager/doc/ui",
4    "inference": "https://aiservices-dar-cfapps.br10.hana.ondemand.com/inference/doc/ui",
5    "mm": "https://aiservices-dar-cfapps.br10.hana.ondemand.com/model-manager/doc/ui"
6  },
7  "token": {
8    "clientid": "sb-39ab890e-7081-4f2b-9cea-d733cfeca463|b23375|dar-std-production|b21962",
9    "clientsecret": "5geqj22z4c4m4f59-4f59-4abb-0255-423345545555",
10   "url": "https://okxccl1sq5qngk.authentication.br10.hana.ondemand.com",
11   "identityzone": "okxccl1sq5qngk",
12   "identityzoneid": "5178897c-a2d0-44af-87b8-43f08558787d",
13   "tenantmode": "dedicated",
14   "tenantmodeid": "5178897c-a2d0-44af-87b8-43f08558787d",
15   "tenantmodeurl": "https://internal-xsuaa.authentication.br10.hana.ondemand.com",
16   "apilurl": "https://api.authentication.br10.hana.ondemand.com",
17   "verificaturl": "https://internal-verificat.authentication.br10.hana.ondemand.com",
18   "verificaturltoken": "v=HIBJIAWgkohkIChWeBQFfA0C4QWHITBcgxQAgAwE2GcpKAQF+oHnHnLwVYt772fP0t0a+b?"}
```

For this tutorial, copy the URL of the Swagger UI for **mm** and open it in a browser tab. The Swagger UI for the model manager allows you to train a machine learning model, to delete it, to deploy the model as well as to **undeploy** the model.

1. To be able to use the Swagger UI endpoints, you need to authorize yourself. In the top right corner, click **Authorize**.

The screenshot shows the Model Manager service for Data Attribute Recommendation API documentation on Swagger. At the top, there's a navigation bar with the Swagger logo, the URL '/model-manager/api/v3/doc', and a green 'Explore' button. Below the navigation, the title 'Model Manager service for Data Attribute Recommendation' is displayed, along with a '3.0.0 OAS3' badge. A sub-header states 'Model Manager enables model training, model deletion, deployment and undeployment of a trained model.' On the left, there's a 'Servers' dropdown set to '/model-manager/api/v3/' and an 'Authorize' button with a lock icon, which is highlighted with a red box. The main content area lists several sections: 'Documentation' (Swagger documentation of the API for the application), 'ModelTemplates' (A model template defines an ML model architecture that can be reused and trained on various data sets. A model template trained during a job on a dataset produces one model.), 'BusinessBlueprints' (A business blueprint is a machine learning scenario for a specific business use case. A job started with a business blueprint internally trains a model template on a dataset and produces one model.), 'Jobs' (A job corresponds to an ML model training job and result in a model upon successful completion.), 'Models' (A model is an ML trained model and is an outcome of a job. Each model has been trained on one dataset and stems from a model template.), and 'Deployments' (Deployments of ML models that can be used for inference.). Each section has a right-pointing arrow.

- Get the `access_token` value created in the previous step and add **Bearer** (with capitalized “B”) in front of it, and enter in the **Value** field.

The screenshot shows the 'Available authorizations' dialog box. It contains a single entry: 'ApiKeyAuth (apiKey)'. The 'Name' is 'Authorization', 'In' is 'header', and 'Value' is 'Bearer <access_token>'. A red circle labeled '1' highlights the 'Value' input field. A red circle labeled '2' highlights the 'Authorize' button. A red circle labeled '3' highlights the 'Close' button.

- Click **Authorize** and then click **Close**.

The screenshot shows the 'Available authorizations' dialog box again. The 'Value' field now contains the actual access token: 'Bearer eyJhbGciOiJSUzI1NiI...'. A red circle labeled '1' highlights the 'Value' input field. A red circle labeled '2' highlights the 'Authorize' button. A red circle labeled '3' highlights the 'Close' button.

4.2

Create a training job

To train a machine learning model using the data that you uploaded in the previous step, you create a training job.

With each training job you provide a model template or a business blueprint which combines data processing rules and machine learning model architecture. You can find the list of available model templates [here](#), and the list of available business blueprints [here](#).

The Invoice Object Recommendation (IOR) business blueprint that you use in this tutorial is suited to assign G/L (general ledger) accounts and other financial objects to incoming invoices without a purchase order reference.

To create the training job, proceed as follows:

1. Expand the endpoint **POST /jobs** by clicking on it. Then click **Try it out**.

The screenshot shows the API documentation for the **POST /jobs** endpoint. The endpoint is described as "Create a training job with either modelTemplateId or businessBlueprintId". It has no parameters and a required request body. The example value for the request body is a JSON object with fields: datasetId, modelTemplateId, modelName, and businessBlueprintId. The businessBlueprintId field is set to "4788254b-0bad-4757-a67f-92d5b55f322d". A red box highlights the "Try it out" button.

2. In the text area, replace the parameter value for **datasetId** with the **id** of your dataset that you have created previously. Delete the **modelTemplateId** line from the **Request body**. Replace the parameter value **modelName** with your model name, **ior_tutorial_model**, for example. Make sure the parameter value for **businessBlueprintId** is **4788254b-0bad-4757-a67f-92d5b55f322d**. Click **Execute** to create the training job.

4.3

Check training job status

To know when your training job has ended, you have to frequently check its status. For that, proceed as follows:

1. Expand the endpoint `GET /jobs/{jobId}` by clicking on it. Then click **Try it out**.

The screenshot shows the 'Jobs' section of an API documentation. It lists three endpoints: 'GET /jobs' (Read all training jobs), 'POST /jobs' (Create a training job), and 'GET /jobs/{jobId}' (Get a training job by id). The third endpoint is expanded, showing its details. The 'Parameters' table includes a required parameter 'jobId' of type string(\$uuid) (path). A red box highlights the 'Try it out' button at the bottom right of the expanded endpoint area.

2. Fill the parameter `jobId` with `id` of your training job that you copied in the previous step.
Click **Execute**.

The screenshot shows the 'Try it out' dialog for the 'GET /jobs/{jobId}' endpoint. It contains the same parameters as the expanded endpoint: 'jobId' (string(\$uuid) (path)). The value 'd22aabff-565b-4610-8ae5-91840aa2e0cb' is entered into the 'jobId' field. A red box highlights the 'Execute' button at the bottom of the dialog.

3. In the response, you find again the current status of your training job along with other details. Immediately after creation of the training job, the status is `PENDING`. Shortly after, it changes to `RUNNING` which means that the model is being trained. The training of the sample data usually takes about 5 minutes to complete but may run longer, up to a few hours due to limited availability of resources in the free tier environment. You can check the status every now and

then. Once training is finished, the status changes to **SUCCEEDED** which means the service has created a machine learning model and you can proceed.

The screenshot shows the Cloud Foundry UI interface for a service named 'aiservices-trial-dar'. The 'Responses' tab is selected, displaying the following details:

- Curl**: A command-line example for making a GET request to the service's API endpoint, including headers for accept and authorization.
- Request URL**: The full URL for the API endpoint: <https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/model-manager/api/v3/jobs/928bdbc3-e25f-410f-9573-816a3a8715b4>.
- Server response**:
 - Code**: 200
 - Details**: Response body (JSON):

```
{
  "businessBlueprintId": "4788254b-0bad-4757-a6f7-92db5f5322d",
  "datasetId": "d23ababf-556b-4610-8ae5-91840aa2e0cd",
  "endedAt": "2022-05-10T09:32:40+00:00",
  "id": "928bdbc3-e25f-410f-9573-816a3a8715b4",
  "maxTrainingTime": null,
  "message": null,
  "modelName": "ior_tutorial_model",
  "modelTemplateId": "223abef0-3b52-446f-9273-f3ca39619d2c",
  "progress": 1,
  "startedAt": "2022-05-10T09:32:40+00:00",
  "status": "SUCCEEDED",
  "submittedAt": "2022-05-10T09:32:40+00:00"
}
```

- Response headers**:
 - content-length: 442
 - content-type: application/json
 - date: Tue 10 May 2022 09:37:11 GMT
 - server:
 - strict-transport-security: max-age=21536000; includeSubDomains; preload;
 - x-correlation-id: 63c5e470-0a2c-4ff8-5e90-e637abe66041
 - x-cap-request-id: 63c5e470-0a2c-4ff8-5e90-e637abe66041

You have successfully trained a machine learning model.

4.4

Deploy machine learning model

To use the trained model, you need to deploy it. Once deployed, the model is ready to make predictions. To deploy your model, proceed as follows:

1. Expand the endpoint **POST /deployments** by clicking on it. Then click **Try it out**.

Deployments Deployments of ML models that can be used for inference.

GET /deployments Read all deployed models

POST /deployments Deploy a model

Deploy a model

Parameters

No parameters

Request body required

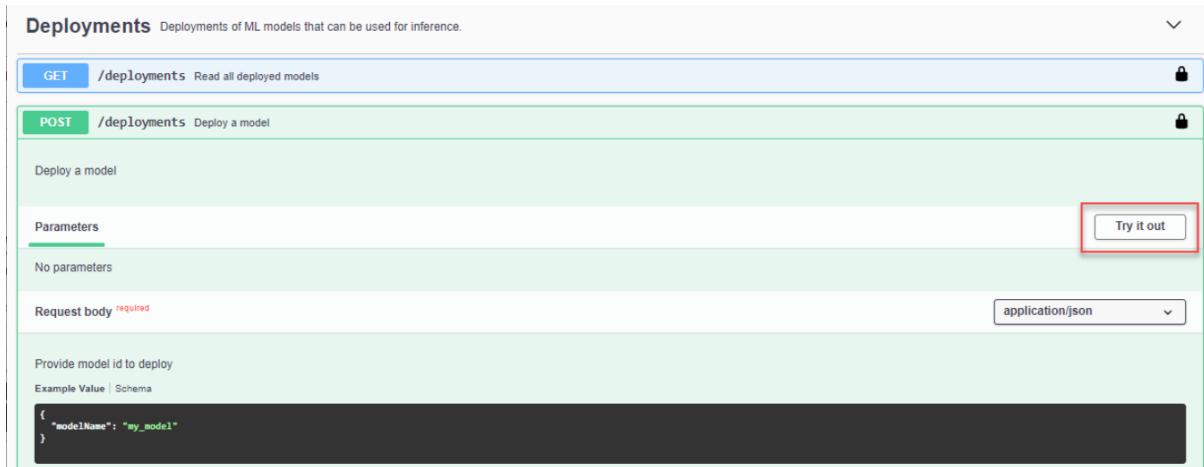
Provide model id to deploy

Example Value | Schema

```
{ "modelName": "my_model" }
```

Try it out

application/json



2. In the text area, replace the parameter **modelName** with the name of your model (**ior_tutorial_model**). Click **Execute** to deploy the model.

POST /deployments Deploy a model

Deploy a model

Parameters

No parameters

Request body required

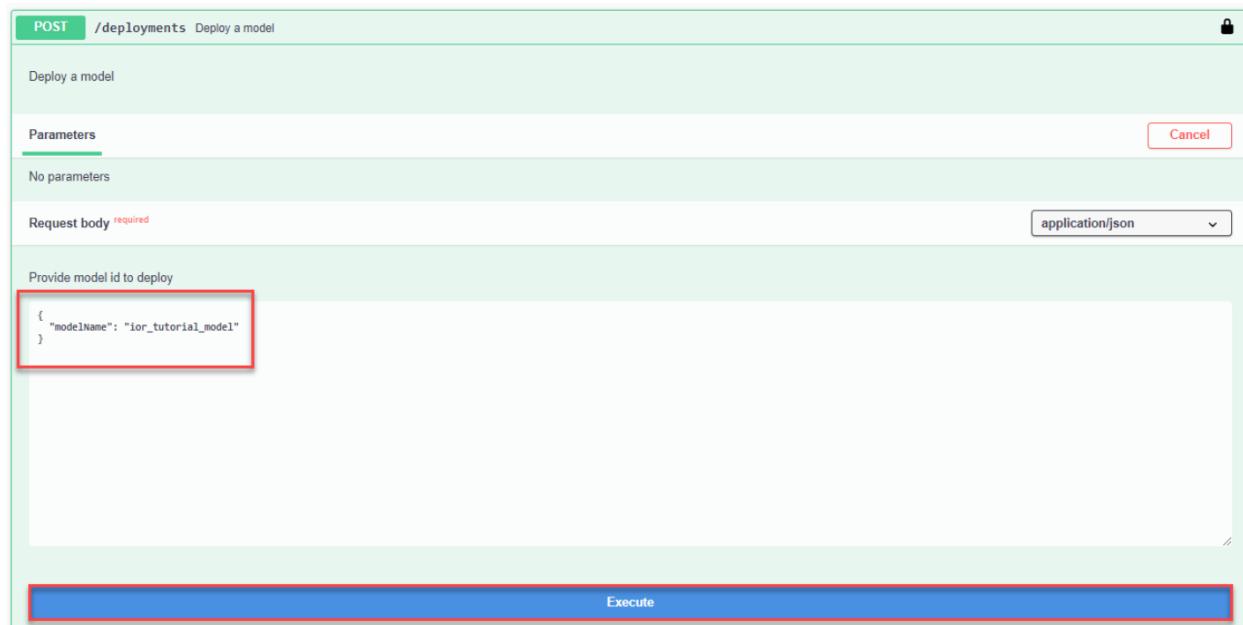
Provide model id to deploy

```
{ "modelName": "ior_tutorial_model" }
```

Cancel

application/json

Execute



3. In the response of the service, you find the **id** of the deployment and its status. Initially, the status is **PENDING**, indicating the deployment is in progress. Make sure to copy the **id** as you need it in the next step.

Responses

```
curl -X POST "https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/model-manager/api/v3/deployments" -H "accept: application/json" -H "Authorization: Bearer eyJhbGciOiJSUzI1NiSwIhdBpD6TmR0l8vZn10TRKTyHnclhbC5dxo5wQanhdLvb151CtewLhbmcubskznbQyZ9t13Rva2WwXzLlxoxILCrwq1013j2kZhdh08Up3d1r2xxttLTuNTp4jy0501sInR5cC1G1kpVx/C9..eyJpdGkIoiJ1zMeXNj7mTQ9yZf0m23l0nay2Zj9MyYz1Yz1hMkyS1sImv4Df9hdByTjp7muaGfuY2WYj01nfNVQUEs1C7duJhY2Wvdus5aW0j01j10t2MzTzKdyyo1NG03lTQyTTATyjdhC85YjNzTE9Yj01011LC167641011jyJUSGRh0hEyawFst1wiC27ydm1j7zaluc3hhmnlwQ10115012EJ2Tm25000DzL1TR1YYTYjR020C042jY4M204Nj11Mmt1f5w1c3V1t10j1c2t0Th0r2jWngutD0Shy002ME21WzTzg10Gy200Mk0PyWt11Mz2Ny2M3xkyXitc3RklXKyFs1M0P03Nv1s1mF1dGhvcml0aWzTjpbInVhSSyzX0NvdxC1751s1mRhC11zdg0tduH0pMhYjWt1C11mllC5hbGwLXs1c2Nvc0J0151dMfl1n1lC1291cM1i12GfylX0WZC10cm1bdF10dA1n2cuMVolnfb5c1d0Lc1jB61bRfam101212y1052e2zJ21z2500ndkLzTlR1YYTyjJ020C042jY4M204Nj11MmIhyjY3NjhzfGhC11zdgQ1trpWhryjWWTc11i1v1Y21k1tj01c2t0Tx0z2yWGeUD05y0z02M11z1j2gtG06200MkoDyNTj1mT2YjG3dxkX1t3Rk1Xy0wF1n0T0DU3W3s1mF6C1G1m1L1TkzTMz2fjB1L1Q00TMHNGVm11mz1M1ThmJgjZDg2fjuYf1n1j2Zm8ZGfy/LXN0ZC10ch1nbCf1n0A1n2z1L1C1mfud99exB1lj01y12p2W0502WjyRbz1Lk1cm2W3Nj2y161j12j12jNkWeYi1iaiFaF0j1oxWjuyNTcyNzY0lC1leMai0j2N1TYuUsjyjs1lcy161mh0d0z01Bz1V101RkYjThoc1nbC5hdx0oz5ewNh0g1vB151czEvmhbmEu25k2v1hbmQuy29t129hdR0s13Rva2w1u1x1em1k1j01z0NjNm150Gm1NTBjhy0wEm1L3TAT0mYyMwdwG1wJ11i1v1yXw1jpb1nhy1s1mRhC11zdgQ1dhpMwmyjQwTc1u1laCts1n1L1Tkz1Mm2NjB1L1Q00TMGvN11mz1M1ThmJgjZDg2MjUyY1F1njC2M2BzGfYjX0NzC10ch1nbCf1n0A1n2z1C0c1h1bDcf1n0A1n2j1x01..0XEGFcxLh1t0u00gdgt6day563jV1t1544Lra1vpq0x0zxtbdulEn1MkggrYvB0GM6GfUzr1z2FLAYq1KFdc1mV1bAk1s1z82cule-EfzzzdfgF0Mea-gga260pQV..y3ErL121t3pcd0ms2905ED..ZPM128..8TF02536wKpDjySSkXKC_n42XlRzj0w41YASDq-aazQfaoeyCmtpysuRk02xytu00em5466443m1c-1gh9yHppypfr5rURGcaM00ZR1SDY-
```

Request URL:

<https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/model-manager/api/v3/deployments>

Server response

Code	Details
200 Undocumented	<p>Response body</p> <pre>{ "deployment": null, "id": "m-659ecfa-b2db-45a2-9860-08772baef1286", "modelName": "ior_tutorial_model", "status": "PENDING" }</pre> <p>Download</p> <p>Response headers</p> <pre>content-length: 119 content-type: application/json date: 10 May 2022 09:39:44 GMT server: strict-transport-security: max-age=31536000; includeSubDomains; preload; x-csrf-request-id: 3bd4cd03-30de-4742-5415-5f4568d40c33 x-vcap-request-id: 3bd4cd03-30de-4742-5415-5f4568d40c33</pre>

4.5

Check deployment status

Finally, you have to ensure that your model is deployed successfully in order to use it for predictions. To check the status of your deployment, proceed as follows:

1. Expand the endpoint [GET /deployments/{id}](#) by clicking on it. Then click **Try it out**.

Deployments Deployments of ML models that can be used for inference.

GET	/deployments	Read all deployed models	🔒
POST	/deployments	Deploy a model	🔒
GET	/deployments/{deploymentId}	Get a deployed model by id	🔒

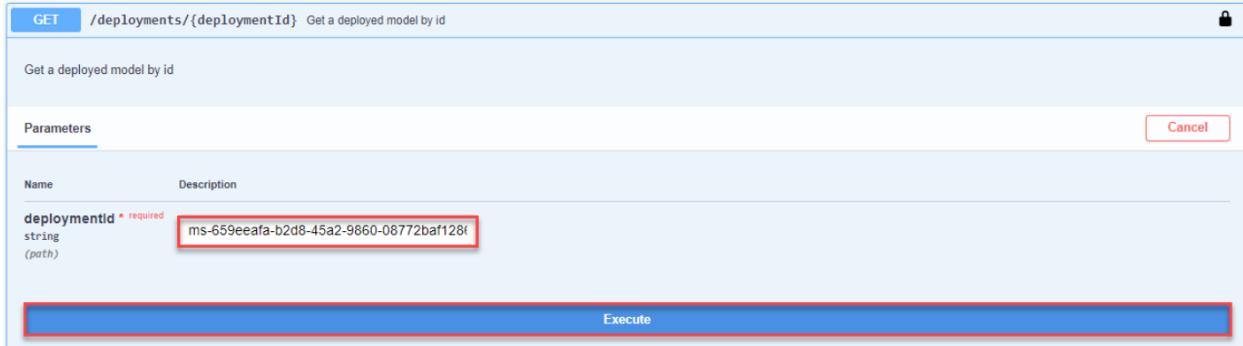
Get a deployed model by id

Parameters

Try it out

Name	Description
deploymentId * required	deploymentId
string	(path)

2. Fill the parameter **deploymentId** with the **id** of your deployment that you copied in the previous step. Click **Execute**.



3. In the response of the service, you find the current status of the deployment. If the status is **SUCCEEDED**, your deployment is done. If the status is still **PENDING**, check back in a few minutes.

```

{
  "deployedAt": "2022-05-10T09:42:56.992000+00:00",
  "id": "ms-659eeafa-b2d8-45a2-9860-08772baf1286",
  "modelName": "inc_tutorial_model",
  "status": "SUCCEEDED"
}

```

You have successfully trained a machine learning model and deployed it. Next, you'll use your model to make predictions.

Step 5: Use the Invoice Object Recommendation (IOR) Business Blueprint to Predict Financial Objects

5.1

Authorize Swagger UI

In the service key you created for Data Attribute Recommendation in the previous step you will find a section called swagger (as highlighted in the image below) with three entries, called dm (data manager), mm (model manager) and inference. You'll use all three Swagger UIs throughout the exercise.

The screenshot shows the SAP Cloud Platform Subaccount interface for 'Workshop_DAR_LAC - Instances and Subscriptions'. In the top right, there's a 'Create' button. Below it, the service details are shown: Instance ID: 39ab890e-7081-4f2b-9cea-d733cfeca463, Service: Data Attribute Recommendation, Plan: standard, Runtime Environment: Cloud Foundry, Created On: 23 Apr 2025, Changed On: 23 Apr 2025, and Created By: tomaz.sauter@sap.com. A modal window titled 'Credentials' is open, displaying a JSON configuration for the 'defaultKey_39ab890e-7081-4f2b-9cea-d733cfeca463' key. The 'JSON' tab is selected. The JSON content includes endpoints for 'dm', 'mm', and 'inference'. The 'inference' endpoint URL is highlighted with a red box: "https://aiservices-dar-cfapps.br10.hana.ondemand.com/inference/doc/ui". At the bottom of the modal, there are 'Copy JSON', 'Download', and 'Close' buttons.

For the following step, copy the URL of the Swagger UI for **inference** and open it in a browser tab. The Swagger UI for inference allows you to classify new data using your machine learning model that you have created previously.

1. To be able to use the Swagger UI endpoints, you need to authorize yourself. In the top right corner, click **Authorize**.

- Get the **access_token** value created in the previous step then add **Bearer** (with capitalized "B") in front of it, and enter in the **Value** field.

- Click **Authorize** and then click **Close**.

5.2

Predict financial objects

To get the machine learning model predictions, proceed as follows:

- Expand the endpoint **POST /models/{modelName}/versions/1** by clicking on it. Then click **Try it out**.

Inference Run prediction

POST /models/{modelName}/versions/1

Input features (a feature vector) are used for prediction and the relevant labels are returned. The result is an array which contains the predictions in the same order as the feature vector. Furthermore, for classification models it is possible to return multiple predictions for each label using the topN parameter.

Parameters

Name **Description**

modelName * required string (path)

Request body required application/json

Definition of the new inference request. For successful requests, at least one feature vector is required and the maximum value of topN should not exceed 100.

Example Value | Schema

```
{
  "topN": 1,
  "objects": [
    {
      "objectId": "46500f3d-6905-4c47-91f3-749b2ac73fe9",
      "features": [
        {
          "name": "string",
          "value": "string"
        }
      ]
    }
  ]
}
```

2. Fill the parameter **modelName** with the name of your machine learning model (**ior_tutorial_model**).
3. In the parameter **body**, you have to provide the data that needs to be predicted. According to the dataset schema that you have created in step 3, the machine learning model takes the training fields such as BUKRS for company code as input and predicts G/L accounts (HKONT). Replace the text in the parameter **body** with the following:

```
{
  "topN":3,
  "objects":[
    {
      "objectId": "optional-identifier-1",
      "features": [
        {
          "name": "BUKRS",
          "value": "ZN02"
        },
        {
          "name": "BELNR",
          "value": "1500022169"
        },
        {
          "name": "GJAHR",
          "value": "2021"
        }
      ]
    }
  ]
}
```

```
        "name":"BUZEI",
        "value":3
    },
    {
        "name":"KOART",
        "value":S
    },
    {
        "name":"WRBTR",
        "value":162709.54
    },
    {
        "name":"LIFNR",
        "value":68046473
    },
    {
        "name":"BLART",
        "value":KN
    },
    {
        "name":"BUDAT",
        "value":20210331
    },
    {
        "name":"MWSKZ",
        "value":IF
    }
]
},
{
    "objectId":"optional-identifier-2",
    "features":[
        {
            "name":"BUKRS",
            "value":ZC04
        },
        {
            "name":"BELNR",
            "value":1510043834
        },
        {
            "name":"GJAHR",
            "value":2022
        },
        {
            "name":"BUZEI",
            "value":176
        },
        {
            "name":"KOART",
            "value":S
        },
        {
            "name":"WRBTR",
            "value":19554
        },
        {
            "name":"LIFNR",

```

```

        "value":"69089950"
    },
    {
        "name":"BLART",
        "value":"KN"
    },
    {
        "name":"BUDAT",
        "value":"20220326"
    },
    {
        "name":"MWSKZ",
        "value":"Q1"
    }
]
}
]
}

```

4. Click Execute to send the above input to the service to get financial object predictions.

POST /models/{modelName}/versions/1

Input features (a feature vector) are used for prediction and the relevant labels are returned. The result is an array which contains the predictions in the same order as the feature vector. Furthermore, for classification models it is possible to return multiple predictions for each label using the 'topN' parameter.

Parameters

Name	Description
modelName * required	ior_tutorial_model

Request body required

application/json

Definition of the new inference request. For successful requests, at least one feature vector is required and the maximum value of topN should not exceed 100.

```
{
  "topN":3,
  "objects":[
    {
      "objectId": "optional-identifier-1",
      "features": [
        {
          "name": "BUKRS",
          "value": "ZNO2"
        },
        {
          "name": "BELNR",
          "value": "1500022169"
        },
        {
          "name": "GJAHR",
          "value": "2021"
        },
        {
          "name": "RJIDFT"
        }
      ]
    }
  ]
}
```

Execute

In the response of the service, you find the probability and the values for G/L account numbers (HKONT). The probability represents how certain the model is about its prediction. The higher the probability the more confident the model is that the prediction is actually correct. If the probability is close to 1, the model is very certain. The service provides one main prediction and two alternative predictions for each G/L account.


```

        ],
        "objectId": "optional-identifier-1"
    },
    {
        "labels": [
            {
                "name": "HKONT",
                "results": [
                    {
                        "probability": 0.9783372283,
                        "value": "7515556"
                    },
                    {
                        "probability": 0.018033715,
                        "value": "7325581"
                    },
                    {
                        "probability": 0.0034737068,
                        "value": "8044756"
                    }
                ]
            }
        ],
        "objectId": "optional-identifier-2"
    }
],
"processedTime": "2022-05-10T09:51:12.253115",
"status": "DONE"
}

```

You have successfully used a machine learning model to predict financial objects. Feel free to adapt the examples above and retry the prediction.

5.3

Undeploy your model (Optional)

Now that you have learned the whole process about how to use the Invoice Object Recommendation (IOR) Business Blueprint from the Data Attribute Recommendation service, it's time to clean up.

First, **undeploy** your model. For that, go back to the Swagger UI for **mm** and:

1. Expand the endpoint **DELETE /deployments/{deploymentId}** by clicking on it. Then click **Try it out.**

You have successfully **undeployed** your model, but the model is not yet deleted. Instead it isn't in production which means that you cannot make inference requests. You can deploy it again at any time using the **POST /deployments** endpoint.

5.4

Delete your model (Optional)

Once **undeployed**, you can delete your model.

1. Expand the endpoint **DELETE /models/{modelName}** by clicking on it. Then click **Try it out**.

The screenshot shows the 'Models' section of a developer interface. It lists three endpoints: 'GET /models' (Read all models), 'GET /models/{modelName}' (Get a model by name), and 'DELETE /models/{modelName}' (Delete a model by its name). The 'DELETE' endpoint is selected. A red box highlights the 'Try it out' button in the top right corner of the expanded view. Below the button, there's a 'Parameters' section with a table for the 'modelName' parameter. The table includes columns for 'Name', 'Description', and 'Example'. The 'Name' column is 'modelName * required', 'Description' is 'string (path)', and 'Example' is 'modelName - Must be between 1 and 56 star'.

2. Fill the parameter **modelName** with the name of your machine learning model (**ior_tutorial_model**). Use the **GET /models** endpoint in case you no longer have the model **name** in hand.

The screenshot shows the same 'DELETE /models/{modelName}' endpoint from the previous screen. The 'modelName' parameter has been filled with the value 'ior_tutorial_model'. A red box highlights the 'Execute' button at the bottom of the expanded view.

3. If the response code is **204**, the model has been successfully deleted.

The screenshot shows the "Responses" section of the Model Manager API documentation. It includes:

- Curl:** A command-line interface for making HTTP requests. The command shown is for a DELETE request to the endpoint `https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/model-manager/api/v3/models/ior_tutorial_model`. It includes headers for accept, authorization (Bearer token), and a timestamp.
- Request URL:** The full URL for the DELETE request: `https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/model-manager/api/v3/models/ior_tutorial_model`.
- Server response:** A table showing the response details. The "Code" column is highlighted with a red box. The value is **204**. The "Details" column contains the response body, which is empty (indicated by three dots).

5.5

Delete your training job (Optional)

Now that the model is deleted, you can delete the training job that created the model.

1. Expand the endpoint **DELETE /jobs/{jobId}** by clicking on it. Then click **Try it out**.

The screenshot shows the "Jobs" section of the Model Manager API documentation. The **DELETE /jobs/{jobId}** endpoint is highlighted with a red box. Below it, there is a "Parameters" table and a "Try it out" button.

Name	Description
jobId * required <code>string(\$uuid) (path)</code>	jobId

Try it out

2. Fill the parameter **jobId** with the ID of your training job. Use the **GET /jobs** endpoint in case you no longer have the job **id** in hand.

DELETE /jobs/{jobId} Delete a training job

Delete a training job

Parameters

Name	Description
jobId * required string(\$uuid) (path)	928bdbc3-e25f-410f-9573-816a3a8715b4

Execute

3. If the response code is **204**, the training job has been successfully deleted.

Responses

Curl

```
curl -X DELETE "https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/model-manager/api/v3/jobs/928bdbc3-e25f-410f-9573-816a3a8715b4" -H "accept: */*" -H "Authorization: Bearer eyJhbGciOiJSUzIiNi5TpmpdZGtNb0B0Bj01BvZm10T0TRKyTbcaNbShDxRo5v0wahedc1b151cFzLnhbmib25kZvDhQzY9t13n02Wx2t1c9w11C7raW0101jYzchzhdw0tNp2dc1rZx0t1T1w1p@AjY005t5t1nR5C1G1kpKVcJ9_cyJqd6ki0j1j1zMeD0tjzWmtQyZ0w22k00az223j0vY1zY1l0W0Kys151mV4dF9hd0ry1j071m0uacFuY2vYj01nfNvqUe11C7zdh0jNv2Wv065wawQ0101j0r0m2t2k4y01mRkL1QyTATyjdWc05y22HzTE9j010W111C676a101j1YjU5jN6GRh0HRYwak5s11wiczydn1j7nxLuc380bw1lauq101t5m2t2m21x1z5m000k0c1t81Y1Y1jw0c042jy4p204811m0f1Sw1c5V1j01c21t0t0m0t2w0gutnd05y0z6211M72t2z10g20v00k0dyw1t11m2t2y2z93dxYxtt1c38k1Xy0mf5t1k00m13w1s1tF1ddcvn1aewv2z1jb1nWv5y2x0vdCj125tsTm8hc11zdgqt1d3p0yMhdyj0wrtc1m1laShb0w1X5v1c2NvC00j01s1dWfhn11c291cN11i1w1ZGFr1X0wz10cm1hcFC1nD1A1nz1cubVolm5hsc1d1Cj061bbnFak0101jzY10sM2t2z1t2w500NDk1L1r1Y1Y1jz0t0c42jY401204N1j11m1t1jYj3Nj0tfgrHc11zdgqt1d3p0yMhdyj0wrtc1m1v1Y21k1j01c21t0t0t0t2w0gutnd05y0z6211M72t2z10g20v00k0dyw1t11m2t2y2z93dxYxtt1c38k1Xy0mf5t1k00m13w1s1tF00tngv1N11h2z4lThmNjgtZg2t2u1jy1f1n1jC2zN8zGFr1X0wz10cm1hcBC1nD1A1nz1c1L1cncfud961811j1y12xp2w50x2wN2yR1bnprh0c211w1cm2t23p0z2y1G1j1z12jNkNwe1i1uakd1j0xwju1ycmzNz01j01c1e1A1j0j2t2H1Y1tUSQs1m1zcy1G1tm0db0Bj01BvZt10TRKyTbcaNbShDxRo5v0a0Nhdg1v151c1c7w1mhbbEu1b5k2v1hbQuYzC10cm1hbCF1nD1A1nz1c00...0w0ExGFc1u1Um0v00q0t06day5633V1544t1rlvqoGx5zrtbdul1Eh1NkgElrYav0oAMGUFzrc2FLAYq1kfDdk1v0kAkEis82cuLE-EfZzzDf6f0Ewa-gpa260qpQv-y3Er1h21t3pcokms290se10...ZP11z8z81FU2536kpxb1j55khkC_n42KLmzp0w41Y3ASbqfaa2F10eyCtpyMsurk21xy1u0NeMw5466443mic-mGDUyNmpyFn59UrCgxw0QzR150Yt-ppyojyrf2ad07j0ka41ghpuVpxahBChBx2rRqacv_a8t1p0E9jp3g"
```

Request URL

<https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/model-manager/api/v3/jobs/928bdbc3-e25f-410f-9573-816a3a8715b4>

Server response

Code	Details
204	Response headers
	content-type: application/json date: Tue10 May 2022 10:02:59 GMT server: strict-transport-security: max-age=31536000; includeSubdomains; preload; x-correlation-id: 9d98fdb0-b9c3-4776-5842-44ac84dfcc6db x-vcap-request-id: 3d98fdb0-b9c3-4776-5842-44ac84dfcc6db

5.6

Delete your dataset (Optional)

To clear the uploaded data, you can now delete the dataset as the associated training job is already deleted. For that, go back to the Swagger UI for **dm** and:

1. Expand the endpoint **DELETE /datasets/{id}** by clicking on it. Then click **Try it out**.

Datasets Datasets store training data structured according to a dataset schema

GET /datasets Read all datasets

POST /datasets Create a new dataset

POST /datasets/{id}/data Upload data to the dataset with the provided id, that has no data yet. Data upload triggers validation process. If data is valid then it gets status 'SUCCEEDED' and is available to be used in new training jobs. If dataset has data already requester will get 409 response code

GET /datasets/{id} Read the dataset with the provided id

DELETE /datasets/{id} Delete the dataset with the provided id

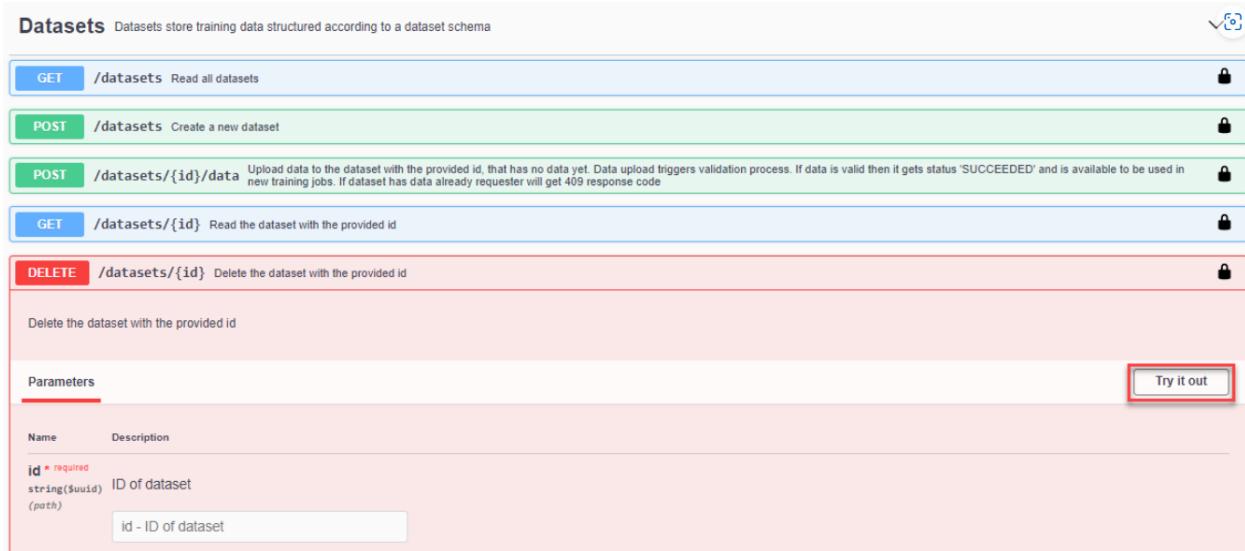
Delete the dataset with the provided id

Parameters

Name Description

id * required
string(\$uuid)
(path)
id - ID of dataset

Try it out



- Fill the parameter **id** with the ID of your dataset. Use the **GET /datasets** endpoint in case you no longer have the dataset **id** in hand.

DELETE /datasets/{id} Delete the dataset with the provided id

Delete the dataset with the provided id

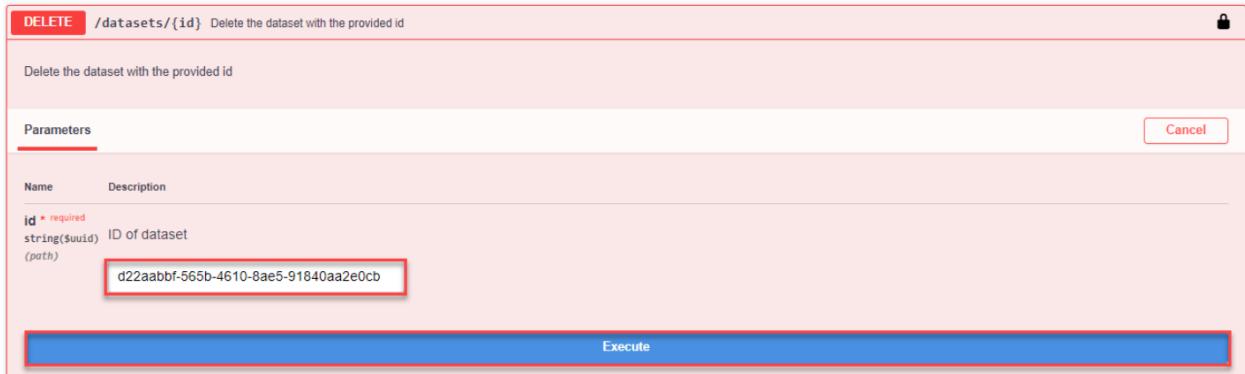
Parameters

Name Description

id * required
string(\$uuid)
(path)
d22aabbf-565b-4610-8ae5-91840aa2e0cb

Cancel

Execute



- If the response code is **204**, the dataset has been successfully deleted.

Responses

Curl

```
curl -X DELETE "https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/data-manager/api/v3/datasets/d2aaabbf-565b-4610-8ae5-91840aa2e0cb" -H "accept: /" -H "Authorization: Bearer eyJhbGciOiJSUzI1NiIsImPrdi6tMh0dRz0i8vNt10TRxTyIhcmlhbShdxR0zv59aInhdicVb1s1cExLmhbnEub25kZnIhbmqv2t13Rxavzu2x1ex91CraM0101j2zWhdx00Mp3dc1r2xktlTmWtq0jyH0SisIn85C16tCpxVC9.eyJqdGkiOiJiZmEXNjZWtPQyzeEM02jK0DAzY22jM0Y1YzY12mRkYzis1m4dfr9hdity1jp71mnuagfuYzv1yj01mfnVVQjeilC2zdrHy2Nwdls5awQ01j01j01j02t1k4yy01j01j03tqy1atAtyjdmc05yjzH2T0yj01011lC1GZG41o1j01j05GRh0Hryawf5t1w1c2Vydmlj7zluc3rbhmNlaQj01t5t2zEY2z1w250800KzL2t1YTTTYj0z0c042jy4M0Qnj11mmt1fswi3v1j01c2z10t0h0t27y0gutndQ5y082zE2LMz2HgtogY200Nk0dyNT1l1m12NzY2z3xkyxitc3RklXKyaiwf5t10m01m3nf1dGhvc18mWz1jbInvhYssy2z0Ndx02jz5t1mRhci12dgQt4t3pymhnyj0NT1cL1m1aL5hbdwX5h1c2NvCg0101s1dFn11l291c1m11t121GFyLxN0zC18m1nDcF10dA1n1cubmVolnf5dc1d1c1jbg11bmrfa0101j2y105ze2z1m2z800n0cL2t1lYTTYj0z0C04zjY4h2Q4Nj11m01hyjyjNjH2fGhcl1zdsqt4t3pymhnyj0NT1c31v1y21k1j01c2z1t0h0t27y0gutndQ5y082zE2LMz2HgtogY200Nk0dyNT1l1m12NzY2z3xkyxitc3RklXKyaiwf5t10m01m3nf1mF6C1G1m11t1k2z1tM2j11t1q00t1ngv1n11m2MAlThm1jg2z2rjuy1f1Nj1c2zN8ZGfyLxN0zC18m1nDcF10dA1n2C1t1c1m1h1C1f10dA1n1z1c3x08_0KzEGfXctp1t0h0g0t0g0t6day5633Vt1544z1m1v1q0s0ca2bd1h1hmgkt1y0v0046qf1uzr2f1t1yq1k1FD011w0k1a1s1s2z1ule1-f7zzdf6tewa-gpa260ppqy-y36t1h1c2d0C7j0mAk41ghpuvxpxabCmBxz1mkoqcv_aap1089p3"
```

Request URL

<https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/data-manager/api/v3/datasets/d2aaabbf-565b-4610-8ae5-91840aa2e0cb>

Server response

Code	Details
204	
Response headers	
Content-type: application/json date: Tue, 10 May 2022 10:06:17 GMT server: Apache/2.4.42 (Ubuntu) strict-transport-security: max-age=31536000; includeSubDomains; preload; x-correlation-id: e4b88ff2-e8da-4b0b-6bec-4d38db22c0a x-vcap-request-id: e4b88ff2-e8da-4b0b-6bec-4d38db8b22c0a	

5.7

Delete your dataset schema (Optional)

If you do not need your dataset schema anymore, you can delete it as well.

1. Expand the endpoint **DELETE /datasetSchemas/{id}** by clicking on it. Then click **Try it out**.

DatasetSchemas Dataset schemas define the structure of a data set

GET	/datasetSchemas	Read all dataset schemas	
POST	/datasetSchemas	Create a new dataset schema	
GET	/datasetSchemas/{id}	Read the dataset schema with the provided id	
DELETE	/datasetSchemas/{id}	Delete the dataset schema with the provided id	

Delete the dataset schema with the provided id

Parameters

Name	Description	Try it out
id * required	string(\$uuid) ID of requested dataset	
(path)	id - ID of requested dataset	

2. Fill the parameter **id** with the ID of your dataset schema. Use the **GET /datasetSchemas** endpoint in case you no longer have the dataset schema **id** in hand.

DELETE /datasetSchemas/{id} Delete the dataset schema with the provided id

Delete the dataset schema with the provided id

Parameters

Name	Description
id * required string(\$uuid) ID of requested dataset (path)	56fd0ae6-0143-4e01-91c2-bab8b110e7ee

Cancel

Execute

3. If the response code is **204**, the dataset schema has been successfully deleted.

Responses

```
curl -X DELETE "https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/data-manager/api/v3/datasetSchemas/56fd0ae6-0143-4e01-91c2-bab8b110e7ee" -H "accept: */*" -H "Authorization: Bearer eyJhbGciOiJSUzIiZXIuI5mpds161m0dHeZ018VmZ10TRKyThtcmIhbC5hdRoV5eaNhdgIvb151CEwIvhbaEub25KzhbQuY29tL3Rva2uX2tE0x1lCjFaMjQ101KzZhdkw0lp8dCzC2XkPmWtpejyB0S1sIm5cCt6KpxVC9-eyJ0dgk0Ijjj7mzWjtZm0Ic9qyfZqB2I70wD77209hd0L1TREIyOZsZM07V2D8v2D9b70z1jo5uWVQIjC2ZjIvDyT2Nkyc1554P-WHsPpB9Q5M0P-1jP9BwWZqG0A4Wn8fV11uME4i0G4V1i1D1Mz4p06G3F5pC9p4qO43p0F4p1721hP82p8G5y900219s03h3pX1iC8Rk30XyDwqXtjE10WzDqIj4R9DhIjD010Dm1tTsTf159cvca1Rm8j233989335452319hV5S94yD0C3j751x3m0c112z8qTd030jWmHjyQmkt3uL1lC5hhd0dX5w1c2wC08101s1dwf1hri3lc291cm11iwi26fgyI10wZC10caIhbCf1n0A1zcub4wLm5hCj0lCj961bmrFawm010121705PxEzRtLzZ500N0kzLz1TlV1YTTjJrZ0c84zYAm024NjJ1mWtHjyJ3WjkrFghhL1zdz6QtduOpwHwryjQjM4Tc31KwIjY2IKtjoi1c121t079ht2hy9gutNDOq5hyo7ne2LWtJ2Pb02DyW72Dy200n&DyNyTl1lnt2N2yYH3dxXYYtC38R1XbVmfStXt0QDEmYtS1m6CCT67Gm11TkzKTH24jBl1T00Q0THmgVnN11mz2MlThmjz72np2JdyYjE1NjC2RzN826Fy1Xb02C18Gm1hbCf1nD41n7CjL1cncmfjrd90exB1tjo1z2p02m502XNy2Nr1hpRpHocz11xi_cm/2330Dy1G1jC12jNkWeiytiuiaF01joxjiuytCcNzV0lC1leH410j2E2NTlyHTusNjqsmlzcy16dm0d0B01018vZnt10TRkyThtcmIhbC5hdRo2v59aLnhdc1vb151czEuLmhbmEub25kzv1hbmQuy29tL29hdR013Rva2w1i1vem1kjo1ZDnjNm150Gh1NTBjhy0w0wEMhL13TAt0mHyWjuxGiwyl11iv1vXXk1jpBnHyS1s1mRhC11zdgQ0tjh0jPwmyhjQwNTc3lm1laCtsIn1l1TkzMTm2j1ll1Q00ThmgVnN11mz4M1LThmNg1zDg2Mj0yYf1njC2K2zN82GzfYX08Zc10cm1nbCf1nD41NzciX08_oNxEGrFxctUmU0w000gd106day5633V1t544Lra1vqGxs2tbdulElhNmkggtYaVb0A4MGUfuzr2zFLAYq1kfDk1V0kAkeis8zcuLE-Ef2z2dfGf0Exa-gqa260qpxV-y3FrlhT21t3pcdkms79osE_ZpM1z8zBfUf2576kp2gjySSkhKC_n42KLMzp0wr4IY3ASbqFaa2QfIoeyCmtpyMsurku21xyTuh00MeMw5466443mic-mGUyHmppFn59tRcgxm0QZ15DYt-pyyjyHpyf2a0k7jre04K4IghpuvxPx4hbCMbxzmKqacV-aTpL0E9jp3g"
```

Request URL

https://aiservices-trial-dar.cfapps.us10.hana.ondemand.com/data-manager/api/v3/datasetSchemas/56fd0ae6-0143-4e01-91c2-bab8b110e7ee

Server response

Code	Details
204	Response headers

```
content-type: application/json
date: Tue 10 May 2022 10:10:12
server:
strict-transport-security: max-age=31536000; includeSubDomains; preload;
x-correlation-id: 0d5ccca-2fe8-4d98-7735-1c5aabfc1bdf
x-vcap-request-id: 0d5ccca-2fe8-4d98-7735-1c5aabfc1bdf
```

Congratulations, you have completed this tutorial.