

## Module

Going back to the session

Go into module 4 folder and run :

```
None
```

```
python create_onnx_model.py
```

## What This Script Does

- Loads original bank marketing data plus newly labeled customer data
- Combines datasets and trains a fresh RandomForest model with improved performance
- Converts the sklearn model to ONNX format for optimized inference serving
- Registers the ONNX model in MLflow's Model Registry with proper versioning and metadata
- Makes the model ready for deployment to Cloudera AI Inference Service
- Outputs JSON file with performance metrics (F1 score, accuracy) and MLflow registration details

Ensure the script runs successfully.

Then go to the main CAI page



X



Home



Data Warehouse



Operational Database



Machine Learning



Data Hub Clusters



Data Catalog



Replication Manager

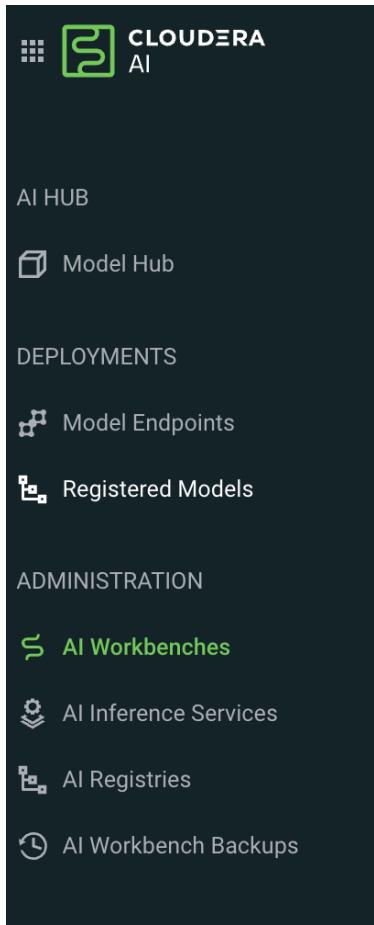


Observability



Management Console

Check to make sure your model got registered (select registered models):



Once there,

1. pick the right model registry
2. Look for your model (identified w/ your username)

The screenshot shows the "Registered Models" page. The search bar at the top has the text "model-registry-mi-8300a220-be7 go01-demo-aws". A single result is listed:

Name	Visibility	Owner	Creation Date	Actions
BankingCampaignPredictor_ONNX_ozarate	Private	ozarate	2025-12-06 02:36:57 PM MST	[Edit]

Click on your model and you can see some important model information such as model id, metrics, parameters, model version and more.

Registered Models / go01-demo-aws / BankingCampaignPredictor\_ONNX...

BankingCampaignPredictor\_ONNX\_lozorate

MODEL ID: bmcn-8pmv-n1os-oc6o

ENVIRONMENT: aws go01-demo-aws

OWNER: ozarate

CREATED AT: 2025-12-06 02:36:57 PM MST

DESCRIPTION: N/A

Version 1 (Latest)

STATUS: Ready

Version: 1

SOURCE: MLFlow

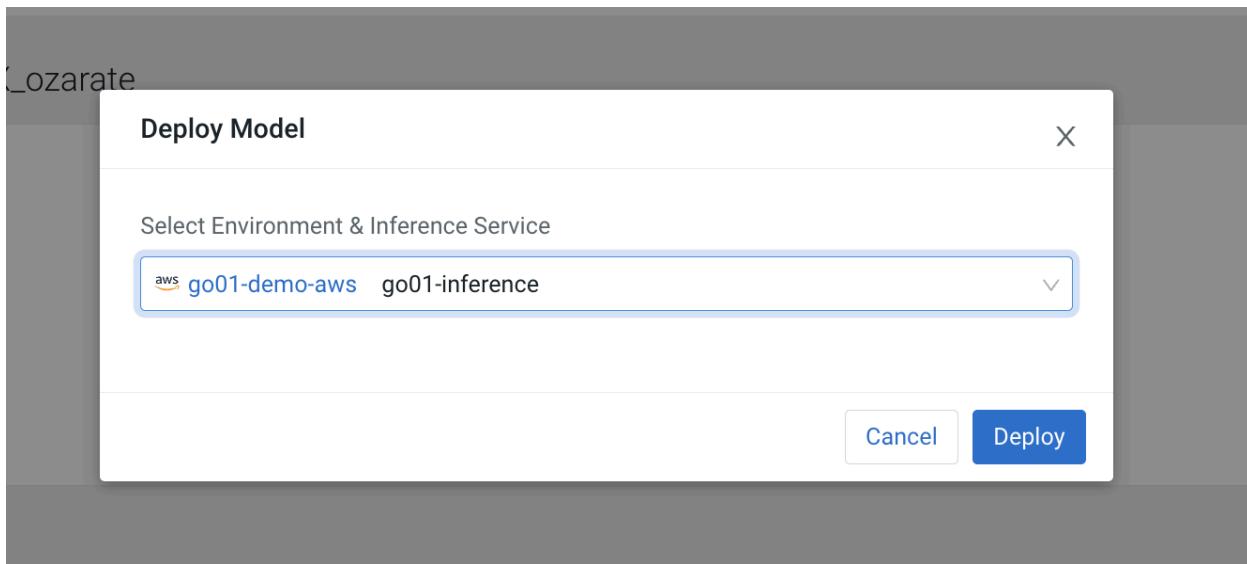
CREATED BY: ozarate

VERSION NOTES: N/A

Metrics Parameters Tags

Name	Value
test_accuracy	0.9180810138040281
test_f1	0.6343434343434343

Go ahead and click on the deploy button. And select the environment and inference services.



Fill in the following information - name “bank-marketing-campaign-your user name” and pick the instance type show below. Select 12 vcpus and 48 GB of ram for memory :

Description

### Served Model Builder

Select the model and version to deploy, then use the Traffic slider to set the traffic split. The first version always defaults to 100% traffic.

\* Model

BankingCampaignPredictor\_ONNX\_ozarate

\* Version

1

Traffic



### Resource Profile

Configure minimum resource requests for your endpoint here. For a multi-replica endpoint, the requested resources will be allocated to each replica. Please note that you must not change GPU allocation for optimized models.

Instance Type

m5.4xlarge

16 CPU

64 GiB

GPU

0

\* CPU

12

vCPU

\* Memory

48

Gi

Endpoint Autoscale Range

0

10



Advanced Options