

Zakaria CHOUKRI

Lab Azure MLFlow Deploy - Cloud Computing - M311

I created a workspace in ml.azure.com and downloaded config.json then put it in the project folder

After running the cells i got this in azure ml

The screenshot shows the Azure ML Machine Learning Studio interface. The left sidebar contains navigation options: All workspaces, Home, Model catalog, Authoring (Notebooks, Automated ML, Designer, Prompt flow), and Assets (Data). The main area displays the 'Jobs' tab for the 'diabetes-sklearn' experiment. A table lists the jobs, with one job 'tidy_monkey_6mwwmcbt' in a 'Running' state. A tooltip for this job shows it is a 'Command job' running the 'tidy_monkey_6mwwmcbt' command.

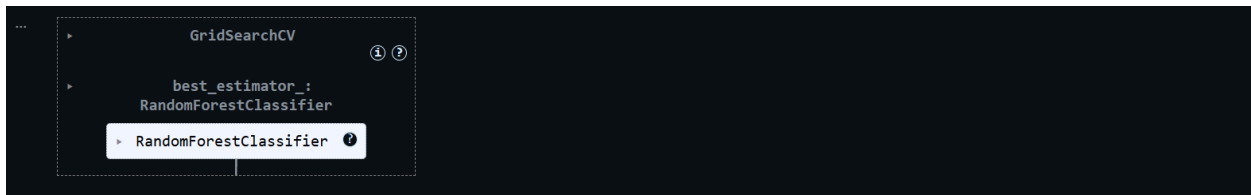
Experiment	Latest job	Last submitted	Created
diabetes-sklearn			Nov 16, 2025 6:07 PM

Display name (1 visualized)	Parent job name	Status	Created on	Duration	Created by
tidy_monkey_6mwwmcbt (8)		Running	Nov 16, 2025 6:11 PM	46s	ZAKARIA CHOUKRI

```
1 gridcv.fit(x_train, y_train)
```

[20] ✓ 57.5s Python

```
2025/11/16 18:11:02 INFO mlflow.utils.autologging_utils: Created MLflow autologgin
View run tender_kite_f5t329ff at: https://switzerlandnorth.api.azureml.ms/mlflc
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
View run gray_shampoo_84y7ng65 at: https://switzerlandnorth.api.azureml.ms/mlfl
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
View run red_key_brdrw29mn at: https://switzerlandnorth.api.azureml.ms/mlflow/v2
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
View run nice_flower_14v2jh34 at: https://switzerlandnorth.api.azureml.ms/mlflc
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
View run zen_tangelo_h37klb5r at: https://switzerlandnorth.api.azureml.ms/mlflc
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
View run gifted_pillow_mmqndrqc at: https://switzerlandnorth.api.azureml.ms/mlf
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
View run dynamic_pot_52qfk80f at: https://switzerlandnorth.api.azureml.ms/mlflc
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
View run yellow_rain_xq680v40 at: https://switzerlandnorth.api.azureml.ms/mlflc
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
View run tidy_monkey_6mwwmcbt at: https://switzerlandnorth.api.azureml.ms/mlflc
View experiment at: https://switzerlandnorth.api.azureml.ms/mlflow/v2.0/subscri
```



Universit  Mohammed VI Polytechnique > Choukri atelier azure mlflow > Jobs > diabetes-sklearn

diabetes-sklearn

[+ Create job](#) [Refresh](#) [Export](#) [Cancel](#) [Delete](#) [View options](#) [Default](#)

Display name (1 visualized)	Parent job name	Status	Created on	Duration	Created by
tidy_monkey_6mwwmcbt (8)		Completed	Nov 16, 2025 6:11 PM	56s	ZAKARIA CHOUKRI

Command job "tidy_monkey_6mwwmcbt" in experiment "diabetes-sklearn" Completed

[Job details](#)

Universit  Mohammed VI Polytechnique > Choukri atelier azure mlflow > Jobs > diabetes-sklearn

tidy_monkey_6mwwmcbt

[Edit](#) [Star](#) [Completed](#)

[Overview](#) [Metrics](#) [Images](#) [Child jobs](#) [Outputs + logs](#) [Code](#) [Monitoring](#)

Properties

Status Completed	Script name --
Created on Nov 16, 2025 6:11 PM	Created by ZAKARIA CHOUKRI
Start time Nov 16, 2025 6:11 PM	Experiment diabetes-sklearn
Duration 56.24s	Arguments None
Compute duration 56.24s	Registered models None
Compute target None	See all properties Raw JSON
Name c9858afc-2957-4347-840b-67fe9646b343	

Inputs

Input name: dataset

Data asset: [dataset:dfdfb800](#)

Asset URI:



Outputs

Output name: mlflow_log_model_393199782

Model: [azureml_c9858afc-2957-4347-840b-67fe9646b343_output_mlflow_log_model_393199782:1](#)

Asset URI:



Output name:

mlflow_log_model_1109821080

Model: [azureml_c9858afc-2957-4347-840b-67fe9646b343_output_mlflow_log_model_1109821080:1](#)

Asset URI:



Tags



estimator_class : sklearn.model_selection._search.GridSearchCV

estimator_name : GridSearchCV

mlflow.autologging : sklearn

mlflow.user : zczak

Params

best_max_depth : 7

best_n_estimators : 30

cv : 10

error_score : nan

estimator : RandomForestClassifier()

n_jobs : None

param_grid : {'n_estimators': [10, 20, 30], 'max_depth': [2, 7, 10]}

pre_dispatch : 2*n_jobs

refit : roc_auc

return_train_score : False

scoring : ['roc_auc', 'precision', 'recall', 'f1', 'accuracy']

verbose : 0

Metrics

best_cv_score
0.8273932

training_log_loss
0.2867196

training_accuracy_score
0.9169381

training_precision_score
0.9187091

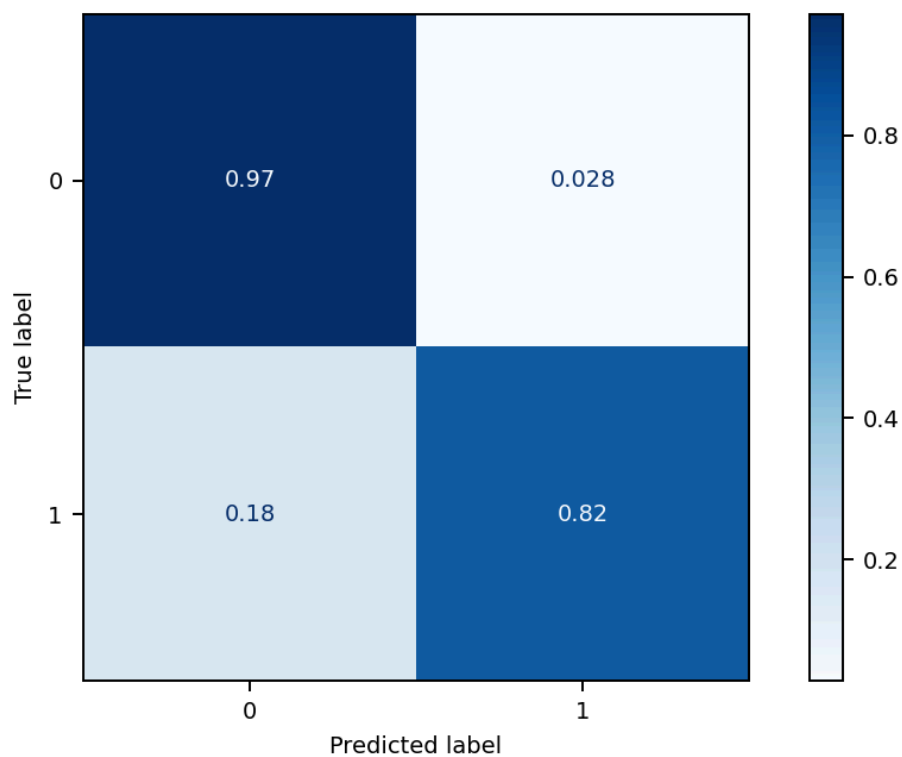
training_f1_score
0.9154997

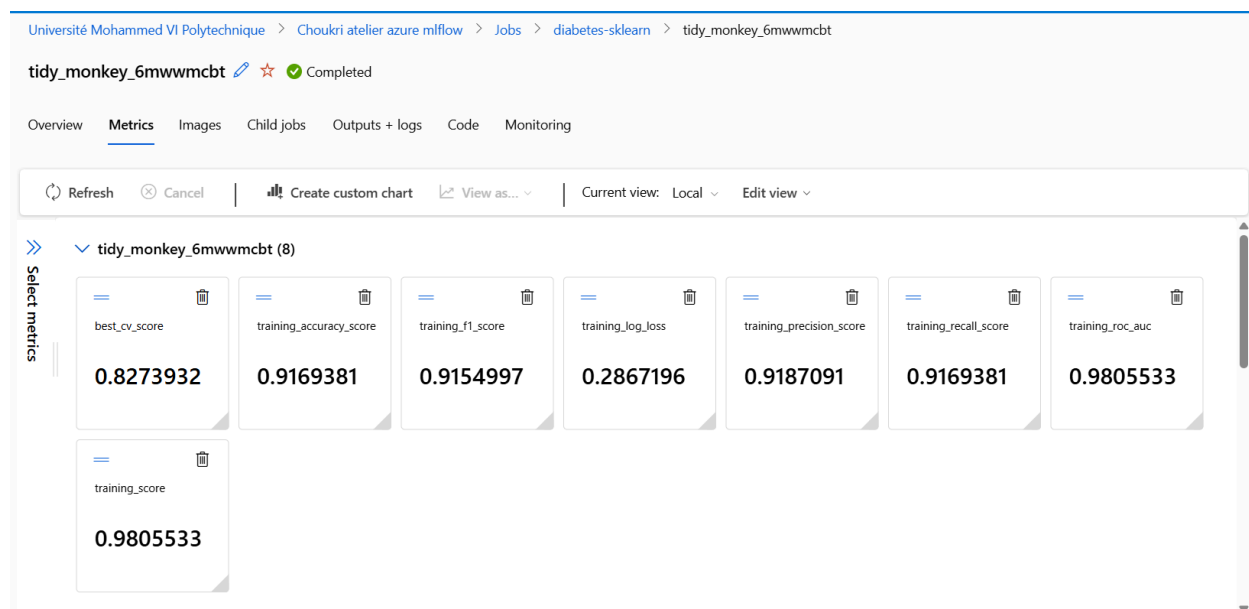
[View all metrics](#)

Description

[i](#) Click edit icon to add a description

Normalized confusion matrix





artifact_path: model

flavors:

python_function:

env:

conda: conda.yaml

virtualenv: python_env.yaml

loader_module: mlflow.sklearn

model_path: model.pkl

predict_fn: predict

python_version: 3.12.3

sklearn:

code: null

pickled_model: model.pkl

serialization_format: cloudpickle

sklearn_version: 1.7.2

is_signature_from_type_hint: false

mlflow_version: 2.22.2

model_size_bytes: 255596

model_uuid: 88414e8d94d242cd956d9c6ed914519e

prompts: null

run_id: c9858afc-2957-4347-840b-67fe9646b343

signature:

inputs: '[{"type": "long", "name": "Pregnancies", "required": true}, {"type": "long", "name": "Glucose", "required": true}, {"type": "long", "name": "BloodPressure",

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```
    "required": true}, {"type": "long", "name": "SkinThickness",
"required": true},
    {"type": "long", "name": "Insulin", "required": true}, {"type":
"double", "name":
    "BMI", "required": true}, {"type": "double", "name":
"DiabetesPedigreeFunction",
    "required": true}, {"type": "long", "name": "Age", "required": true}]]'
    outputs: '[{"type": "tensor", "tensor-spec": {"dtype": "int64", "shape":
[-1]}}]'
    params: null
type_hint_from_example: false
utc_time_created: '2025-11-16 17:11:14.748694'
```

Trouver le Run actuelle

[Generate](#) [Code](#) [Markdown](#)

```
1 run_id = 'c9858afc-2957-4347-840b-67fe9646b343'
2 run = [r for r in experiment.get_runs().if r.id == run_id][0]
```

✓ 1.1s Python

Enregistrer le modèle

On visualise le model

Azure AI | Machine Learning Studio

Université Mohammed VI Polytechnique > Choukri atelier azure mlflow > Models > diabetes_

diabetes_model:1

Details Versions Artifacts Endpoints Jobs Data Feature sets Responsible AI

Attributes

Name
diabetes_model

Version
1

Created on
Nov 16, 2025 6:18 PM

Created by
ZAKARIA CHOUKRI

Type
CUSTOM

Created by job
[c9858afc-2957-4347-840b-67fe9646b343](#)

Asset ID
azureml://locations/switzerlandnorth/workspaces/80ab5f13-3f25-41bf-9a3c-c1977be30021/models/diabetes_model/versions/1

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Search

Université Mohammed VI Polytechnique > Registries > azureml > Environments > mlflow-py

mlflow-py312-inference

Version: 25 (latest) ▾

Overview Jobs

Refresh

Properties

Name
mlflow-py312-inference

Created by
azureml

Creation date
Nov 15, 2025 9:44 PM

Version
25

Environment operating system
Linux

Azure container registry
mcr.microsoft.com/azureml/curated/mlflow-py312-inference:25

Asset ID
azureml://registries/azureml/environments/mlflow-py312-inference/versions/25

I have a problem with the Docker code as it takes forever to run and at the end it just crashes

```
1 service = Model.deploy(
2     workspace = ws,
3     name = 'diabetes-prediction-service5',
4     models = [model],
5     inference_config = inference_config,
6     deployment_config = deployment_config,
7     overwrite=True)
8
9 service.wait_for_deployment(show_output=True)
```

1m 6.5s Python

Tips: You can try `get_logs()`: <https://aka.ms/debugimage#dockerlog> or local deployment: <https://aka.ms/debugimage#debug-log>

Running

2025-11-16 18:56:25+01:00 Creating Container Registry if not exists.

2025-11-16 18:56:26+01:00 Building image.

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Université Mohammed VI Polytechnique > Choukri atelier azure mlflow > Endpoints > diabetes-prediction-service5

diabetes-prediction-service5

Details Logs

Endpoint attributes

Service ID
diabetes-prediction-service5

Description
--

Deployment state
Transitioning

Compute type
Container instance

Created by
ZAKARIA CHOUKRI

Model ID
diabetes_model1

Created on
Nov 16, 2025 6:56 PM

Last updated on
Nov 16, 2025 6:56 PM

Tags
No data

Properties

azureml.git.repository.uri
https://github.com/zakariaCHOUKRI/LAB_CLOUD_COMPUTING_M311.git

mlflow.source.git.repoURL
https://github.com/zakariaCHOUKRI/LAB_CLOUD_COMPUTING_M311.git

azureml.git.branch
main

mlflow.source.git.branch
main

azureml.git.commit
d9bbe5167c2d3296353dd07f8494cd3a0e635018

mlflow.source.git.commit
d9bbe5167c2d3296353dd07f8494cd3a0e635018

Creating the endpoint

Deploy diabetes_model:1

Endpoint

Model

Deployment

Code + environment

Compute

Traffic

Review

Review

Review the deployment settings

Endpoint

Name
choukri-atelier-azure-mlf-asgof

Description
--

Compute type
Managed

Authentication type
Key

Public network access
Enabled

Tags
No tags

Deployment

Name
diabetes-model-1

Scoring timeout
60

Application Insights enabled
false

Egress public network access
Enabled

Tags
No tags

Environment

Back

Create

Creating endpoint. This operation may take a while...

Cancel

Deployment "diabetes-model-1"
creation in progress
[Deploy details](#)

Endpoint attributes

Service ID

choukri-atelier-azure-mlf-asgof

Description

--

Provisioning state

Succeeded

And finally here is my endpoint:

<https://choukri-atelier-azure-mlf-asgof.switzerlandnorth.inference.ml.azure.com/score>