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dataplatform.cloud.ibm.com/analytics/notebooks/v2/aa6a22de-f66a-4251-b2c6-d40754fc2d67?projectid=55bbdf68-45c6-42d4-9891-0d3508d45d0b&context=cpdaas

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Run Format Code

In [35]:
```
print('Training accuracy: ',accuracy_score(y_train,Rn_train_pred))
print('Testing accuracy: ' , accuracy_score(y_test,Rn_test_pred))
```

```
Training accuracy:  0.9902758932609679
Testing accuracy:  0.968340117593849
```

Based on Testing and Training Accuracy , we prefer Logistic Regression model for the project

IBM - Deployment

In [36]:
```
!pip install -U ibm-watson-machine-learning
```

```
Requirement already satisfied: ibm-watson-machine-learning in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (1.0.257)
Requirement already satisfied: requests in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (2.26.0)
Requirement already satisfied: packaging in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (21.3)
Requirement already satisfied: pandas<1.5.0,>=0.24.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (1.
3.4)
Requirement already satisfied: importlib-metadata in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (4.8.2)
Requirement already satisfied: ibm-cos-sdk==2.11.* in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (2.11.
0)
Requirement already satisfied: tabulate in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (0.8.9)
Requirement already satisfied: certifi in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (2022.9.24)
```

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dataplatform.cloud.ibm.com/analytics/notebooks/v2/aa6a22de-f66a-4251-b2c6-d40754fc2d67?projectid=55bbdf68-45c6-42d4-9891-0d3508d45d0b&context=cpdaas

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Run Format Code

In [50]:
```
model_id = wml_client.repository.get_model_id(model_details)
model_id
```

Out[50]: '3cdfad5b-517f-4b94-a5f1-d47cf14e58e5'

In [51]:
```
#set meta
deployment_props = {
        wml_client.deployments.ConfigurationMetaNames.NAME:DEPLOYMENT_NAME,
        wml_client.deployments.ConfigurationMetaNames.ONLINE:{}
}
```

In [52]:
```
#Deploy
deployment=wml_client.deployments.create(
   artifact_uid=model_id,
   meta_props=deployment_props

)
```

```
#######################################################################################

Synchronous deployment creation for uid: '3cdfad5b-517f-4b94-a5f1-d47cf14e58e5' started

#######################################################################################
```

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dataplatform.cloud.ibm.com/ml-runtime/deployments/f824b4c2-e5cc-43f2-a58c-48f70a9c5ae1?space_id=05b5951b-72d0-4e13-b415-5527e41a9662&context=cpdaas

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Deployments / models / models /

models

Deployed Online

API reference | Test

Code snippets

cURL | Java | JavaScript | **Python** | Scala

```
import requests

# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
API_KEY = "<your API key>"
token_response = requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":
 API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'})
mltoken = token_response.json()["access_token"]

header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}

# NOTE: manually define and pass the array(s) of values to be scored in the next line
payload_scoring = {"input_data": [{"fields": [array_of_input_fields], "values": [array_of_values_to_be_scored, another_array_of_values_to_be_scored]}]}

response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/ml/v4/deployments/f824b4c2-e5cc-43f2-a58c-48f70a9c5ae1/predictions?version=2022-11-
 headers={'Authorization': 'Bearer ' + mltoken})
```

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