



Screenshots for Model Deployment in IBM cloud

Trusted | Python 3.9 


```
In [3]:  import os, types
import pandas as pd
from botocore.client import Config
import ibm_boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
cos_client = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='NQbemMNI-QTC9xGVYu9x-E2eRRX8tMdmVWLlilkYGpf',
    ibm_auth_endpoint="https://iam.cloud.ibm.com/oidc/token",
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')
```

autoair-ts_5.5-pys.8	52c57158-801a-572e-8728-a5e7c0b42cde	base
spark-mllib_2.4-scala_2.11	55a70f99-7320-4be5-9fb9-9edb5a443af5	base

```
software_spec_uid
```

```
Out[46]: '12b83a17-24d8-5082-900f-0ab31fbfd3cb'
```

```
In [51]: model_details = client.repository.store_model(model=Randm_Forest, meta_props = {
    client.repository.ModelMetaNames.NAME:"rainfall_pred",
    client.repository.ModelMetaNames.SOFTWARE_SPEC_UID:software_spec_uid,
    client.repository.ModelMetaNames.TYPE:"scikit-learn_1.0"}
    )
model_id = client.repository.get_model_id(model_details)
```

This method is deprecated, please use `get_model_id()`

```
In [52]: model_id
```

```
Out[52]: '98a98dd5-9a52-445e-8c52-2813a927085c'
```

newDeployment

✓ Deployed

Online

- API reference
- Test

Direct link

Endpoint

Bearer <token> ⓘ

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/988a35a4-5d94-4dff-81e8-0fd5e93519f4/predictions?version=20 📄

IAM



+ Code + Text

Connect ▾

Editing



```
import requests

import json
# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
API_KEY = "IYhl2VJPcsKa1DvohrhA8BwB8Wk43ShPuQ1VzL0fPMXJ"
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": [{"field": ["MinTemp", "MaxTemp", "Rainfall", "Evaporation", "Sunshine", "WindGustSpeed", "WindSpeed9am", "WindSpeed3pm", "Humidity9am", "Humidity3pm",
    "Pressure9am", "Pressure3pm", "Cloud9am", "Cloud3pm", "Temp9am", "Temp3pm"]},
    "values": [[13.4, 22.9, 0.6, 0.2, 0.4, 44.0, 20.0, 24.0, 71.0, 22.0, 1007.7, 1007.1, 8, 16.9, 21.8]]]}

response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/ml/v4/deployments/988a35a4-5d94-4dff-81e8-0fd5e93519f4/predictions?version=2022-11-22', json=payload_scoring,
    headers={'Authorization': 'Bearer ' + mltoken})
print("Scoring response")
pred = response_scoring.json()
print(pred)
print("Predicted value: " + pred['predictions'][0]['values'][0][0])
```

```
Scoring response
{'predictions': [{'fields': ['prediction', 'probability'], 'values': [['No', [0.52, 0.48]]}]]}
Predicted value: No
```