

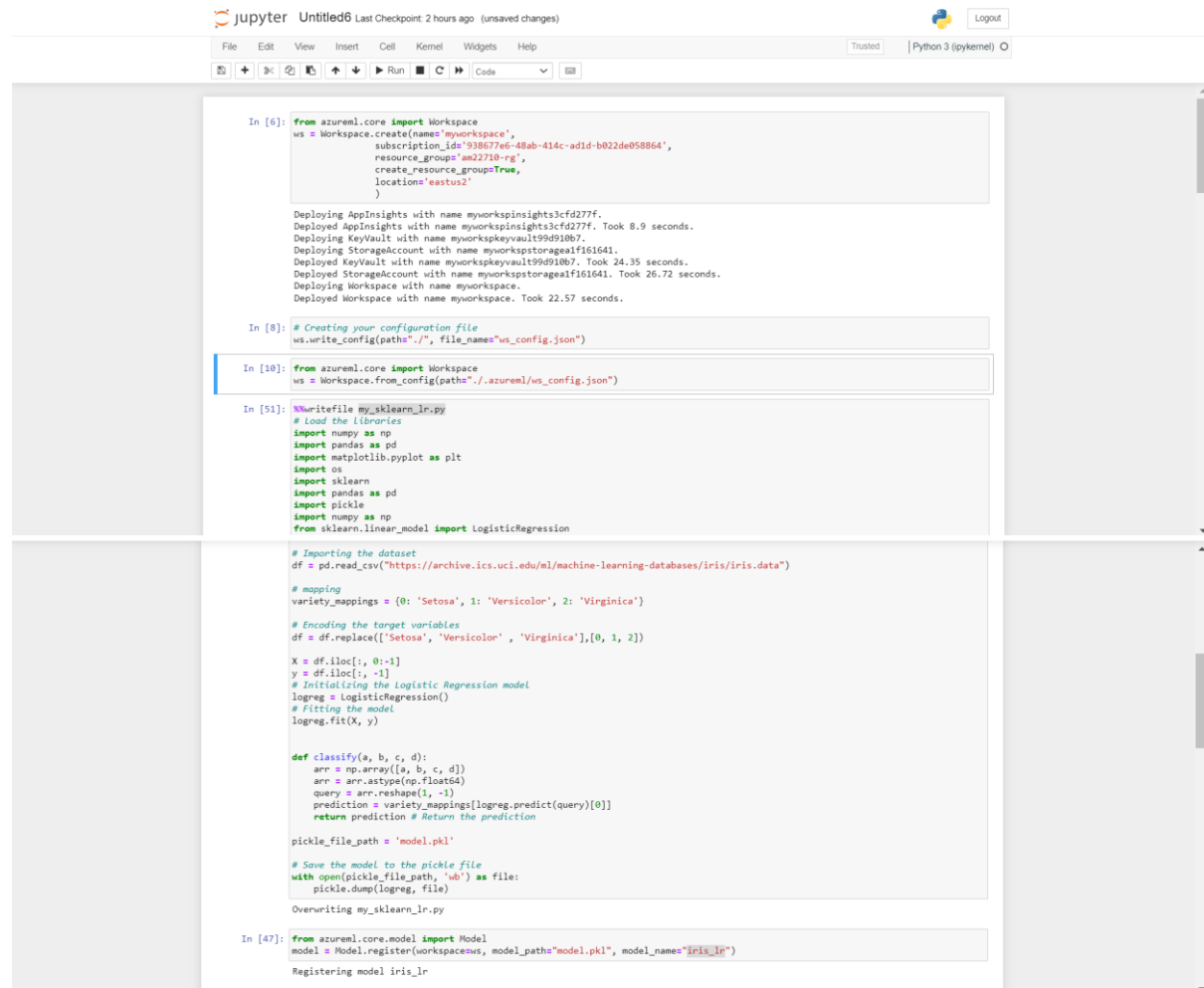
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Batch Code: LISUM21

Submission Date: 11/06/2023

Submitted to:

Screenshots:



```

In [6]: from azureml.core import Workspace
ws = Workspace.create(name='myworkspace',
                    subscription_id='938677e6-48ab-414c-ad1c-b022de058864',
                    resource_group='az22710-rg',
                    create_resource_group=True,
                    location='eastus2')

Deploying AppInsights with name myworkspinsights3cfd277f.
Deployed AppInsights with name myworkspinsights3cfd277f. Took 8.9 seconds.
Deploying KeyVault with name myworkspkeyvault99d918b7.
Deployed KeyVault with name myworkspkeyvault99d918b7. Took 24.35 seconds.
Deploying StorageAccount with name myworkspstoragee1f161641.
Deployed StorageAccount with name myworkspstoragee1f161641. Took 26.72 seconds.
Deploying Workspace with name myworkspace.
Deployed Workspace with name myworkspace. Took 22.57 seconds.

In [8]: # Creating your configuration file
ws.write_config(path='./', file_name='ws_config.json')

In [10]: from azureml.core import Workspace
ws = Workspace.from_config(path='./azureml/ws_config.json')

In [51]: %writefile my_sklearn_lr.py
# Load the libraries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import os
import sklearn
import pandas as pd
import pickle
import numpy as np
from sklearn.linear_model import LogisticRegression

# Importing the dataset
df = pd.read_csv("https://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data")

# mapping
variety_mappings = {0: 'Setosa', 1: 'Versicolour', 2: 'Virginica'}

# Encoding the target variables
df = df.replace(['Setosa', 'Versicolour', 'Virginica'], [0, 1, 2])

X = df.iloc[:, 0:-1]
y = df.iloc[:, -1]
# Initializing the Logistic Regression model
logreg = LogisticRegression()
# Fitting the model
logreg.fit(X, y)

def classify(a, b, c, d):
    arr = np.array([a, b, c, d])
    arr = arr.astype(np.float64)
    query = arr.reshape(1, -1)
    prediction = variety_mappings[logreg.predict(query)[0]]
    return prediction # Return the prediction

pickle_file_path = 'model.pkl'

# Save the model to the pickle file
with open(pickle_file_path, 'wb') as file:
    pickle.dump(logreg, file)

Overwriting my_sklearn_lr.py

In [47]: from azureml.core.model import Model
model = Model.register(workspace=ws, model_path='model.pkl', model_name='Iris_lr')

Registering model iris_lr

```

[illegible]

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myworkspace

myworkspace

Notebook samples

- Get started: Train and deploy a model**
Train and deploy a sample image classification model.
[Start](#) 25 minutes
- Distributed GPU training**
Run a sample multi-GPU image classification experiment.
[Start](#) 30 minutes
- Automate with Pipelines**
Create a production pipeline for a credit default prediction sample.
[Start](#) 35 minutes

Shortcuts

- Create notebook**
Use notebooks for interactive cloud development.
- Add compute**
A designated resource for running your training script, notebook, or hosting your service deployment.
- Connect data**
Connect data from datastores, local files, public URLs, or Open Datasets assets.
- Train a model**
Submit a training job to your model.

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