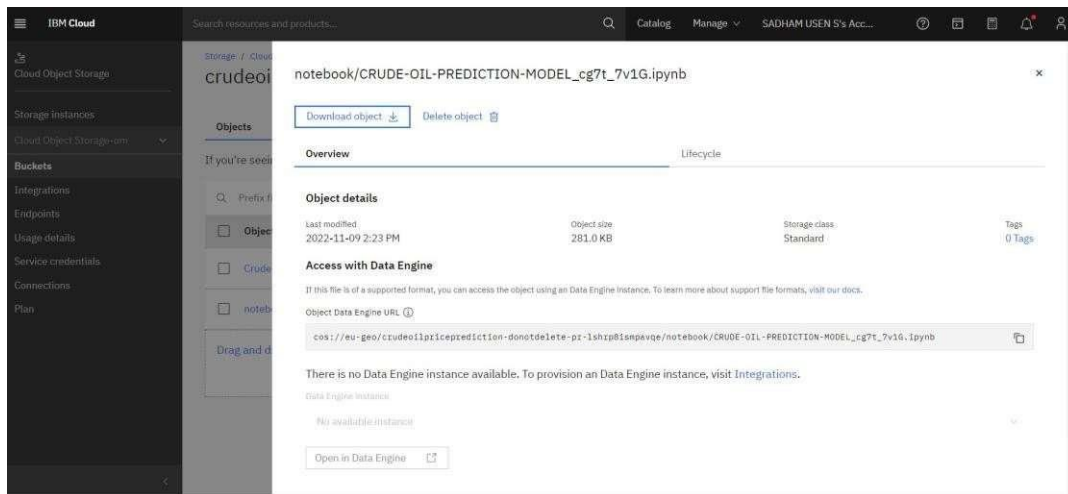
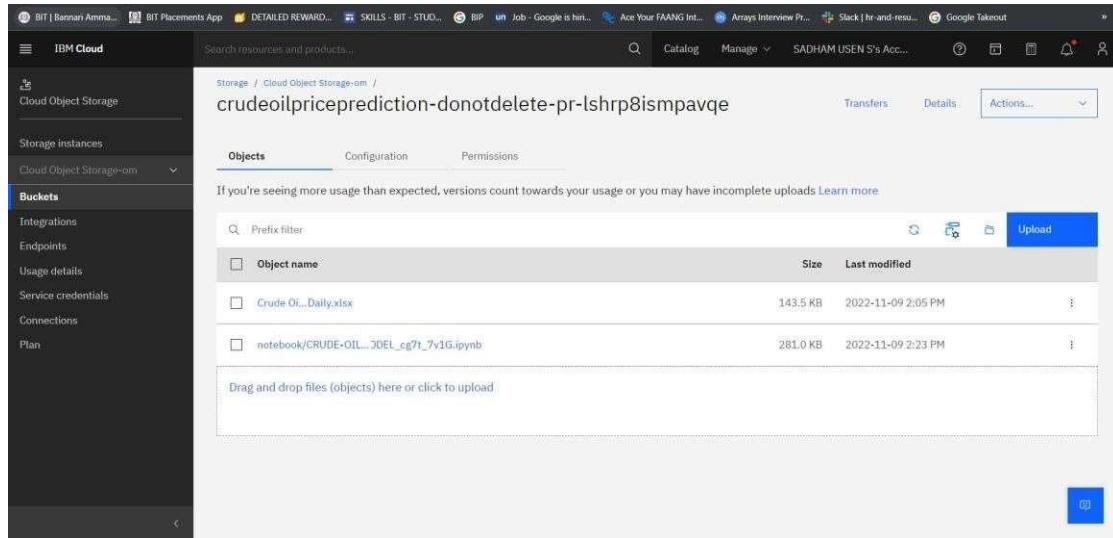


DATE	19 November 2022
TEAM ID	PNT2022TMID43578
PROJECT NAME	Crude Oil Price Prediction

REGISTERING ON IBM AND TRAINING THE MODEL



CRUDE-OIL-PREDICTION-MODEL

eu-de.dataplatform.cloud.ibm.com/analysis/notebooks/v2/3fba3145-2b90-492f-b636-a52263a82daf?projectId=7d892b95-148d-4b45-ba01-005c607c2bb5&context=cpdaas

IBM Watson Studio

Projects / CRUDE-OIL-PRICE-PREDICTION / CRUDE-OIL-PREDICTION-MODEL

File Edit View Insert Cell Kernel Help

Not Trusted | Python 3.9

```
from pylab import rcParams
import matplotlib.pyplot as plt
import warnings
import itertools
import statsmodels.api as sm
from keras.models import Sequential
from keras.layers import Dense
from keras.layers import LSTM
from keras.layers import Dropout
from sklearn.metrics import mean_squared_error
from keras.callbacks import ReduceLROnPlateau, EarlyStopping, ModelCheckpoint
from sklearn.metrics import mean_squared_error
from sklearn.metrics import mean_absolute_error
import seaborn as sns
sns.set_context("paper", font_scale=1.3)
sns.set_style("white")
import math
from sklearn.preprocessing import MinMaxScaler

# Input data files are available in the "../input/" directory.
# For example, running this (by clicking run or pressing Shift+Enter) will list all files under the input directory
warnings.filterwarnings("ignore")
plt.style.use('fivethirtyeight')
import os
for dirname, _, filenames in os.walk('/kaggle/input'):
    for filename in filenames:
        print(os.path.join(dirname, filename))

IMPORTING DATA

In [6]: dateparse = lambda x: pd.datetime.strptime(x, '%d %d %Y')
#read csv file
```

Data

Files

Upload one file at a time. All file types accepted. 5 GB max file size.

Crude Oil Prices Daily.xlsx

Insert to code

CRUDE-OIL-PREDICTION-MODEL

eu-de.dataplatform.cloud.ibm.com/analysis/notebooks/v2/3fba3145-2b90-492f-b636-a52263a82daf?projectId=7d892b95-148d-4b45-ba01-005c607c2bb5&context=cpdaas

IBM Watson Studio

Projects / CRUDE-OIL-PRICE-PREDICTION / CRUDE-OIL-PREDICTION-MODEL

File Edit View Insert Cell Kernel Help

Not Trusted | Python 3.9

```
#read csv file

In [8]:
import os, types
import pandas as pd
from boto3.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 these credentials before you share the notebook.
cos_client = ibm_boto3.client(service_name='s3',
                              ibm_api_key_id='92f0nl1kuw579EprATQ0Kx2V2tPhaX6Ibt1j8tCrLL',
                              ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
                              config=Config(signature_version='oauth'),
                              endpoint_url='https://s3.private.eu.cloud-object-storage.appdomain.cloud')

bucket = 'crudeoilpriceprediction-donotdelete-pr-1shrp8isapavqe'
object_key = 'Crude Oil Prices Daily.xlsx'

body = cos_client.get_object(Bucket=bucket, Key=object_key)['body']
df = pd.read_excel(body.read())
df.head()
```

Out[8]:

	Date	Closing Value
0	1986-01-02	25.66
1	1986-01-03	26.00

Data

Files

Upload one file at a time. All file types accepted. 5 GB max file size.

Crude Oil Prices Daily.xlsx

Insert to code

IBM Watson Studio

dataplatform.cloud.ibm.com/ml-runtime/spaces/0570a6af-fbb3-4149-b9fd-3a7d700ba00b/overview?context=cgdaas

IBM Watson Studio

Search in your workspaces

Buy

Sanjay Krishna Sriram's Ac...

Dallas

Deployments /

model

Overview Assets Deployments Jobs Manage

Assets

- CrudeOil Price Prediction
13 minutes ago
- CrudeOil Price Prediction
1 hour ago
- CrudeOil Price Prediction
4 hours ago
- CrudeOil Price Prediction
5 hours ago

[View all \(4\)](#)

Deployments

All

0	0
Deployed	Failed

[View deployments](#)

Job runs

0	0
Active	Failed last 24 hours

[View jobs](#)

Space activity

No notifications
You will see your most recent notifications here.

Drop files here or browse for files to upload.

Stay on the page until upload completes.
Incomplete uploads are cancelled.

PNT2022TMD1...jpyrb

Crude Oil Prices D...xlsx

Crude Oil Prices D...xlsx

Show all

Crude Oil Price Prediction

Enter the Oil price for 10 days

99,98,99,67,99,99,99,99,75,99,98,99,15,99,17,99,18,99

Submit

Reset