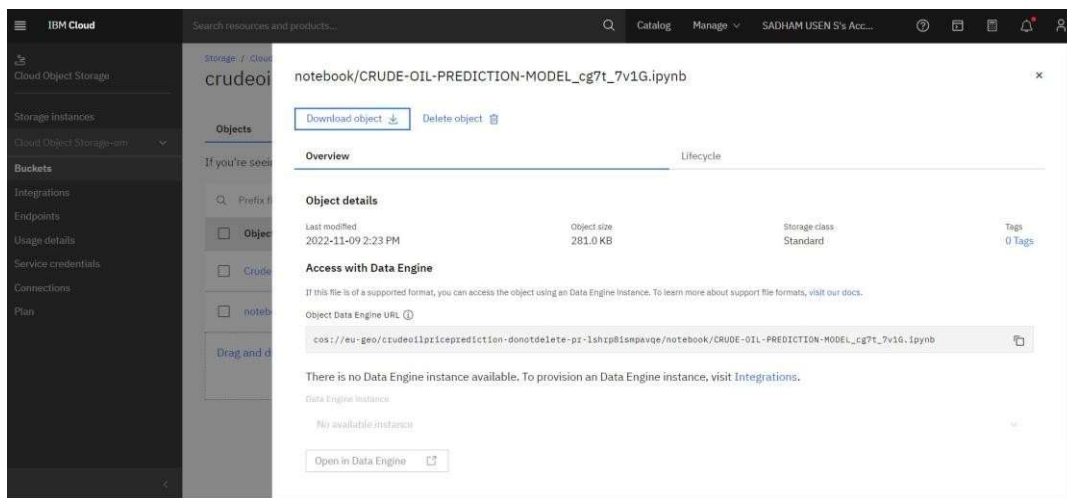
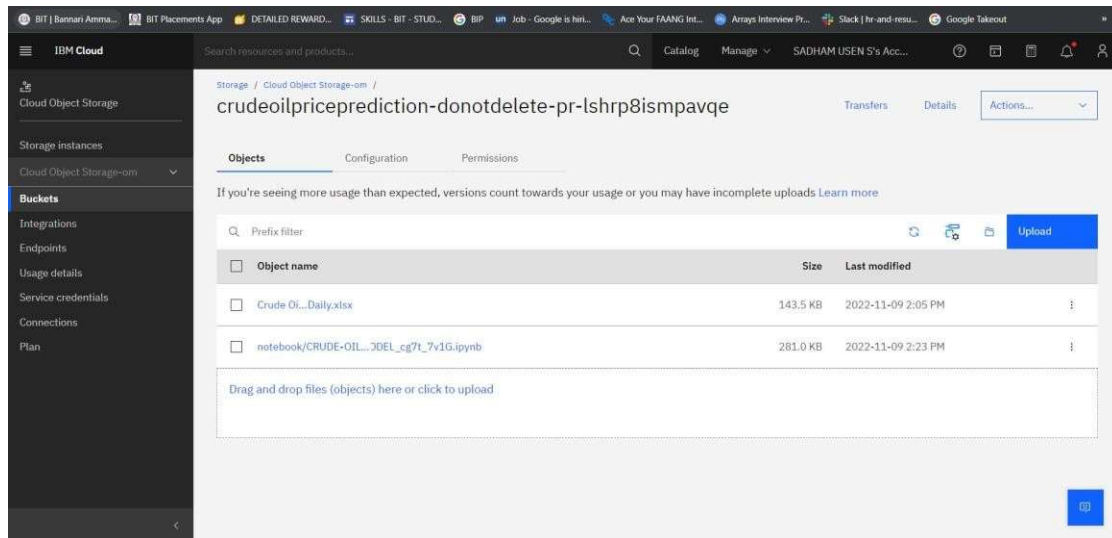


| | |
|--------------|----------------------------|
| DATE | 19 November 2022 |
| TEAM ID | PNT2022TMID43580 |
| PROJECT NAME | Crude Oil Price Prediction |

REGISTERING ON IBM AND TRAINING THE MODEL



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```

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 os
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.

Drag and drop files here or upload.

Crude Oil Prices Daily.xlsx

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```

#read csv file

In [8]:
import os, types
import pandas as pd
from boto3.client import Config
import 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 = boto3.client(service_name='s3',
    aws_api_key_id='2f9010a5c72e9a70002921f4a81b11j8stCrlL',
    aws_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-1shrp1smpavge'
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 | 1996-01-02 | 25.56 |
| 1 | 1996-01-03 | 26.00 |

Data

Files

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

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Crude Oil Prices Daily.xlsx

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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

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PNT2022TMD1...ipynb

Crude Oil Prices D...xlsx

Crude Oil Prices D...xlsx

Show all

Crude Oil Price Prediction

Enter the Oil price for 10 days

99.98,99.67,99.99,99.75,99.98,99.15,99.17,99.18,99.19,99.20,99.21,99.22,99.23,99.24,99.25,99.26,99.27,99.28,99.29,99.30,99.31,99.32,99.33,99.34,99.35,99.36,99.37,99.38,99.39,99.40,99.41,99.42,99.43,99.44,99.45,99.46,99.47,99.48,99.49,99.50,99.51,99.52,99.53,99.54,99.55,99.56,99.57,99.58,99.59,99.60,99.61,99.62,99.63,99.64,99.65,99.66,99.67,99.68,99.69,99.70,99.71,99.72,99.73,99.74,99.75,99.76,99.77,99.78,99.79,99.80,99.81,99.82,99.83,99.84,99.85,99.86,99.87,99.88,99.89,99.90,99.91,99.92,99.93,99.94,99.95,99.96,99.97,99.98,99.99

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