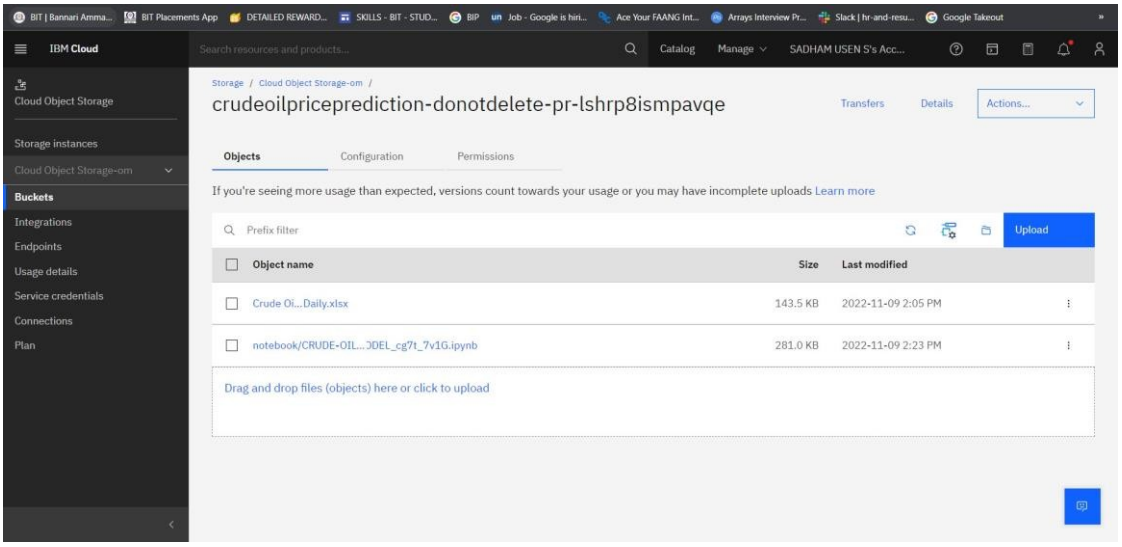
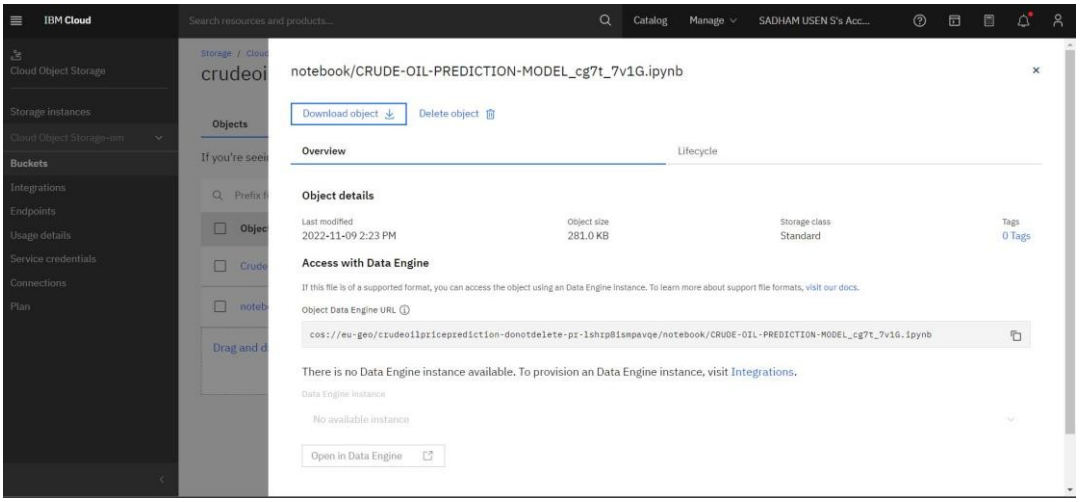
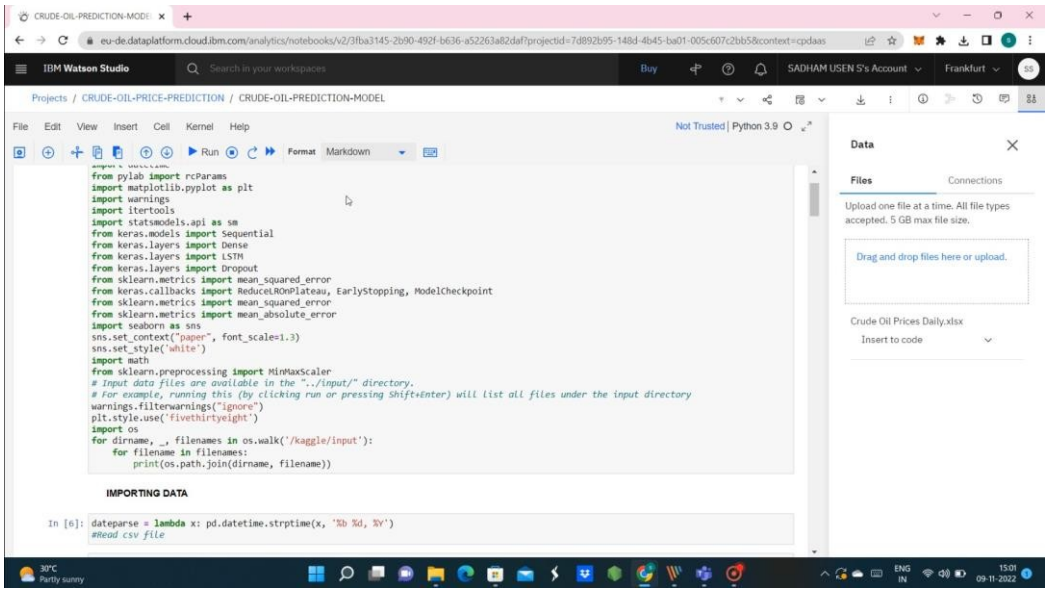
DATE	19 November 2022
TEAM ID	PNT2022TMID26108
PROJECT NAME	Crude Oil Price Prediction

REGISTERING ON IBM AND TRAINING THE MODEL






CRUDE-OIL-PREDICTION-MODEL
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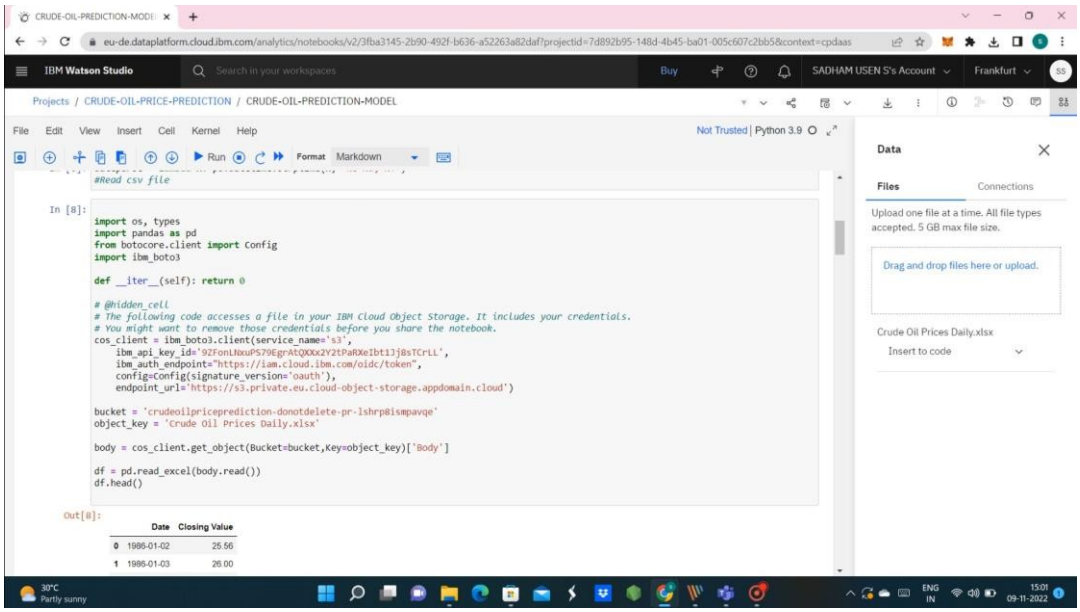
File Edit View Insert Cell Kernel Help
Not Trusted | Python 3.9
Run
Format Markdown
from pylab import rcParams
import matplotlib.pyplot as plt
import warnings
import itertools
import statsmodels.api as sm
from keras.models import Sequential
from keras.layers import Dense
from keras.layers import LSTM
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, '%b %d, %Y')
#Read csv file
Data
Files
Connections
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
Insert to code
30°C
Partly sunny
ENG
IN
15:01
09-11-2022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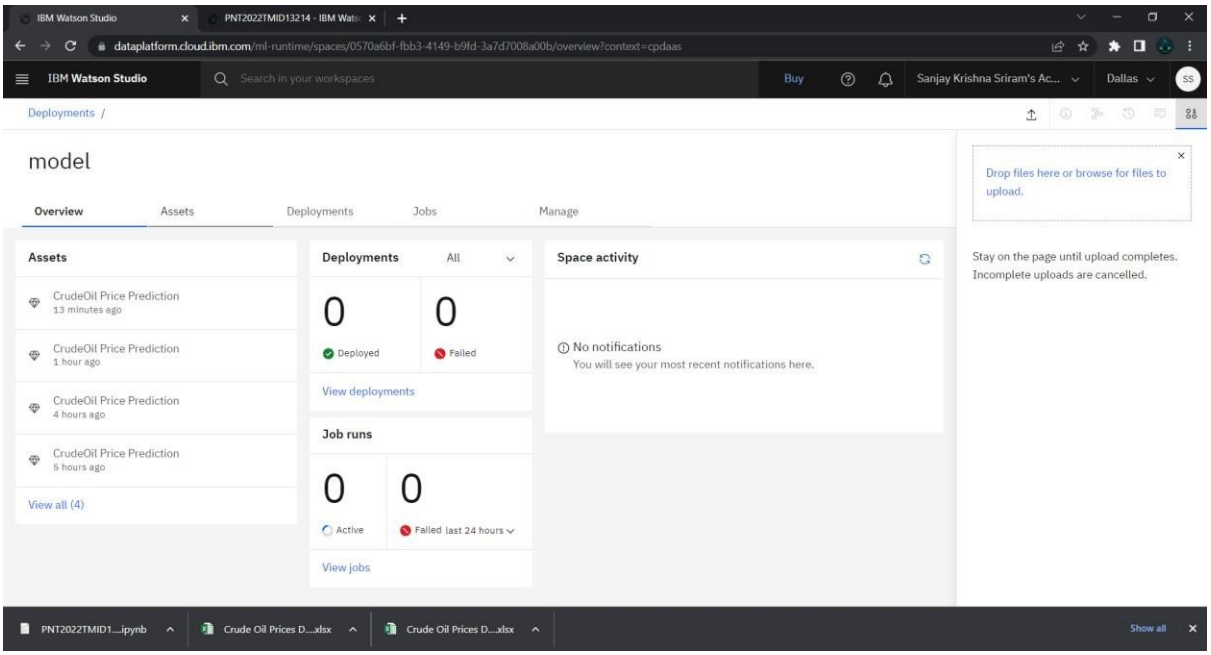
File Edit View Insert Cell Kernel Help
Not Trusted | Python 3.9
Run
Format Markdown
#Read csv file
In [8]:
import os, types
import pandas as pd
from botocore.client import Config
import ibm_boto3
def __iter__(self): return 0
# @hidden_cell
# The following code accesses a file in your IBM Cloud Object 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='9ZFonLNxuPS79EgrAtQXXx2Y2tPaRXeIbt1Jj8sTCrLL',
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-lshrp8ismpavqe'
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 25.56
1 1986-01-03 26.00
Data
Files
Connections
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
Insert to code
30°C
Partly sunny
ENG
IN
15:01
09-11-2022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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
Deployed
0
Failed
View deployments
Job runs
0
Active
0
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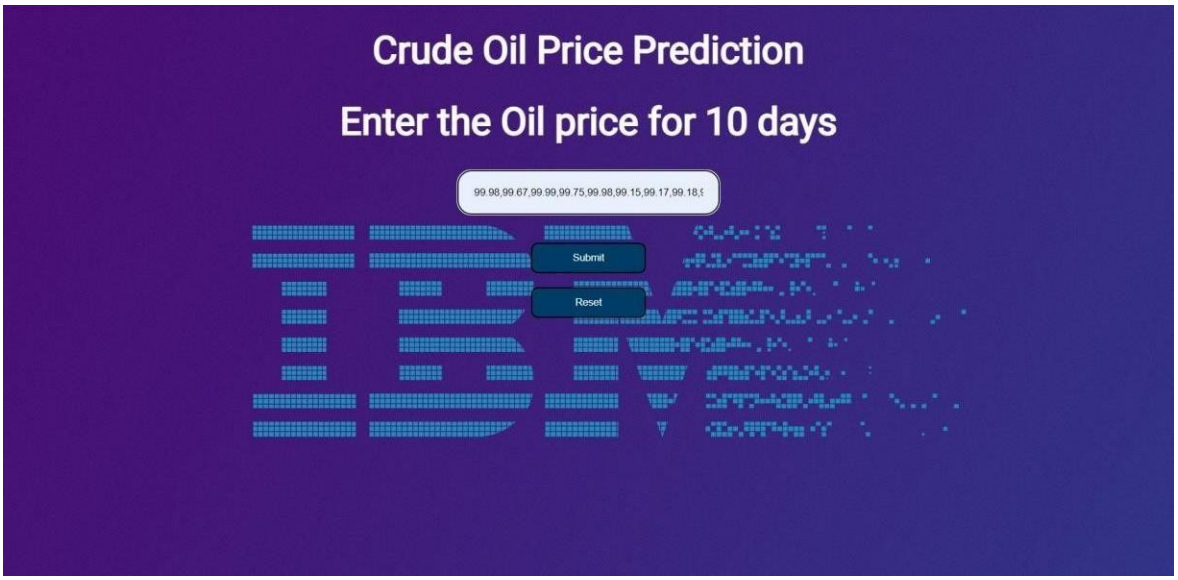
Crude Oil Prices D....xlsx
Crude Oil Prices D....xlsx
Show all


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,
Submit
Reset