

DATE	19 November 2022
TEAM ID	PNT2022TMID09674
PROJECT NAME	Crude Oil Price Prediction

REGISTERING ON IBM AND TRAINING THE MODEL

Storage / Cloud Object Storage / crudeoilpriceprediction-donotdelete-pr-lshrp8ismpavqe

Transfers Details Actions...

Objects Configuration Permissions

If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads [Learn more](#)

Prefix filter

Object name	Size	Last modified
Crude Oil...Daily.xlsx	143.5 KB	2022-11-09 2:05 PM
notebook/CRUDE-OIL...MODEL_cg7t_7v1G.ipynb	281.0 KB	2022-11-09 2:23 PM

Drag and drop files (objects) here or click to upload

Upload

Storage / Cloud Object Storage / crudeoilpriceprediction-donotdelete-pr-lshrp8ismpavqe / notebook/CRUDE-OIL-PREDICTION-MODEL_cg7t_7v1G.ipynb

Download object Delete object

Overview Lifecycle

Object details

Last modified	Object size	Storage class	Tags
2022-11-09 2:23 PM	281.0 KB	Standard	0 Tags

Access with Data Engine

If this file is of a supported format, you can access the object using an Data Engine instance. To learn more about support file formats, visit [our docs](#).

Object Data Engine URL

cos://eu-geo/crudeoilpriceprediction-donotdelete-pr-lshrp8ismpavqe/notebook/CRUDE-OIL-PREDICTION-MODEL_cg7t_7v1G.ipynb

There is no Data Engine instance available. To provision an Data Engine instance, visit [Integrations](#).

Data Engine instance

No available instance

Open in Data Engine

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```

import sys
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 %b %Y')
#read csv file

```

Data

Files Connections

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

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Crude Oil Prices Daily.xlsx

Insert to code

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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',
    iam_api_key_id='02f01ba0c579e9d700002212a00e1b11j8sTrLL',
    iam_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-1shrp8ismpavqe'
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	25.00

Data

Files Connections

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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dataplatform.cloud.ibm.com/ml-runtime/spaces/0570a6bf-fbb3-4149-b9fd-3a7d7008a00b/overview?context=cpdaas

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Deployments /

model

Overview

Assets

Deployments

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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

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

PNT2022TMID1...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

Submit

Reset