

```

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

data=pd.read_excel("/content/Crude Oil Prices Daily.xlsx")

data.isnull().any()

Date                False
Closing Value       True
dtype: bool

data.isnull().sum()

Date                0
Closing Value       7
dtype: int64

data.dropna(axis=0,inplace=True)

data.isnull().sum()

Date                0
Closing Value       0
dtype: int64

data_oil=data.reset_index()['Closing Value']
data_oil

0          25.56
1          26.00
2          26.53
3          25.85
4          25.87
...
8211       73.89
8212       74.19
8213       73.05
8214       73.78
8215       73.93
Name: Closing Value, Length: 8216, dtype: float64

from sklearn.preprocessing import MinMaxScaler
scaler=MinMaxScaler(feature_range=(0,1))
data_oil=scaler.fit_transform(np.array(data_oil).reshape(-1,1))

data_oil

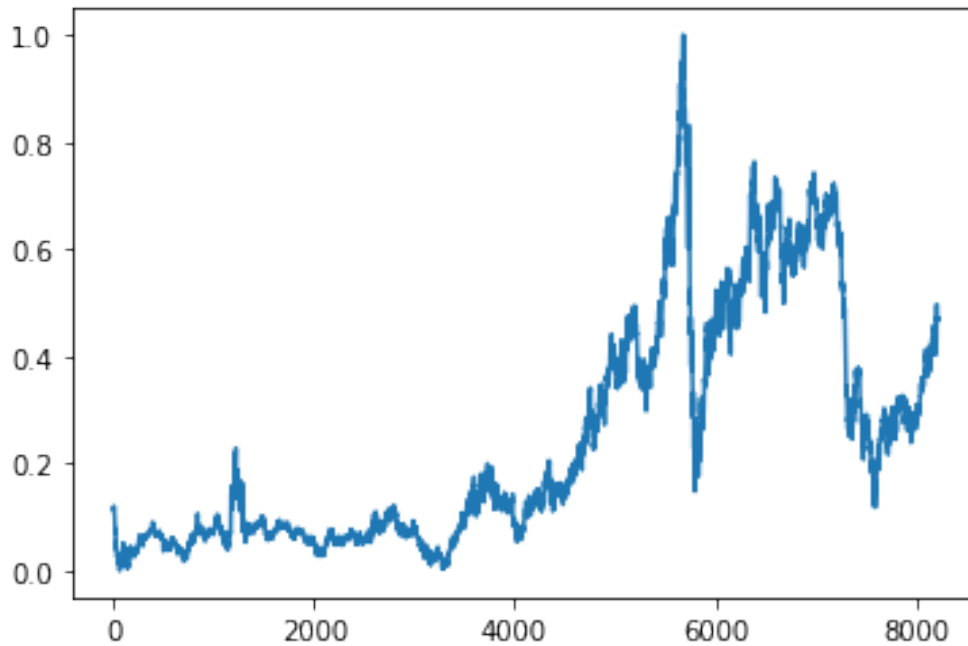
array([[0.11335703],
       [0.11661484],
       [0.12053902],
       ...,
       [0.46497853],

```

```
[0.47038353],  
[0.47149415]])
```

```
plt.plot(data_oil)
```

```
[<matplotlib.lines.Line2D at 0x7fd2ef4b1dd0>]
```



```
training_size=int(len(data_oil)*0.65)  
test_size=len(data_oil)-training_size  
train_data,test_data=data_oil[0:training_size:],data_oil[training_size:len(data_oil),:]
```

```
training_size,test_size
```

```
(5340, 2876)
```

```
train_data.shape
```

```
(5340, 1)
```