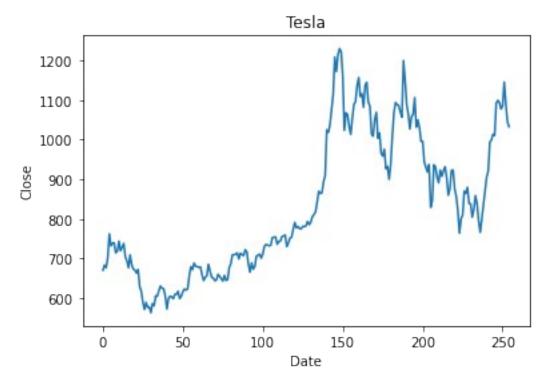
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from fbprophet import Prophet
data = pd.read csv("C://Users//Admin//Downloads//TSLA.csv")
data.head()
         Date
                     0pen
                                 High
                                              Low
                                                        Close
                                                                Adj
Close \
0 2021-04-07
                           691.380005
              687,000000
                                       667.840027
                                                   670,969971
670.969971
  2021-04-08
              677.380005
                           689.549988
                                      671.650024
                                                   683,799988
683.799988
2 2021-04-09
              677.770020
                          680.969971
                                      669.429993
                                                   677.020020
677.020020
3 2021-04-12
              685.700012
                          704.799988
                                       682.090027
                                                   701.979980
701.979980
                                                   762.320007
  2021-04-13
              712.700012
                          763.000000
                                      710.659973
762.320007
     Volume
  26309400
  23924300
1
2
  21437100
3
  29135700
  44652800
close = data['Close']
ax = close.plot(title='Tesla')
ax.set xlabel('Date')
ax.set ylabel('Close')
plt.show()
```



```
data["Date"] = pd.to datetime(data["Date"],
infer datetime format=True)
data = data[["Date", "Close"]]
data.describe()
             Close
count
        255.000000
mean
        830.990468
std
        176.161168
min
        563.460022
25%
        680.510010
        781.530029
50%
75%
        997.690002
max
       1229.910034
data = data.rename(columns={"Date" : "ds", "Close" : "y" })
model = Prophet()
model.fit(data)
INFO:fbprophet:Disabling yearly seasonality. Run prophet with
yearly seasonality=True to override this.
INFO: fbprophet: Disabling daily seasonality. Run prophet with
daily seasonality=True to override this.
D:\Miniconda\lib\site-packages\fbprophet\forecaster.py:891:
FutureWarning: The frame.append method is deprecated and will be
removed from pandas in a future version. Use pandas.concat instead.
  components = components.append(new comp)
```

```
<fbprophet.forecaster.Prophet at 0x1ef0a362910>
predict = model.make future dataframe(periods=365)
forcast = model.predict(predict)
D:\Miniconda\lib\site-packages\fbprophet\forecaster.py:891:
FutureWarning: The frame.append method is deprecated and will be
removed from pandas in a future version. Use pandas.concat instead.
  components = components.append(new comp)
D:\Miniconda\lib\site-packages\fbprophet\forecaster.py:891:
FutureWarning: The frame.append method is deprecated and will be
removed from pandas in a future version. Use pandas.concat instead.
  components = components.append(new comp)
forcast[["ds", "yhat", "yhat lower", "yhat upper"]].tail()
                           vhat lower
                     yhat
                                        yhat upper
           ds
615 2023-04-03 622.505765
                            -7.448622
                                       1225,429144
616 2023-04-04 616.310141 -26.516181 1203.547364
617 2023-04-05 617.277715
                            -9.423372 1206.442366
                            -31.904206 1176.299685
618 2023-04-06 609.311901
619 2023-04-07
               605.401029
                           -34.016582 1198.750582
graph = model.plot(forcast, xlabel='Date', ylabel='Price')
plt.title('TESLA stock price estimation')
```

Text(0.5, 1.0, 'TESLA stock price estimation')

