TechEdu Data Science Internship

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TechEdu

TIP - OCTOBER 2021

TechEdu's Internship Program

Task 1

Netfix Share Prices

PERFORM A DETAILED EXPLORATORY DATA ANALYSIS ON NETFIX SHARE DATA.

Dataset Link :

https://bit.ly/3DMcgMK

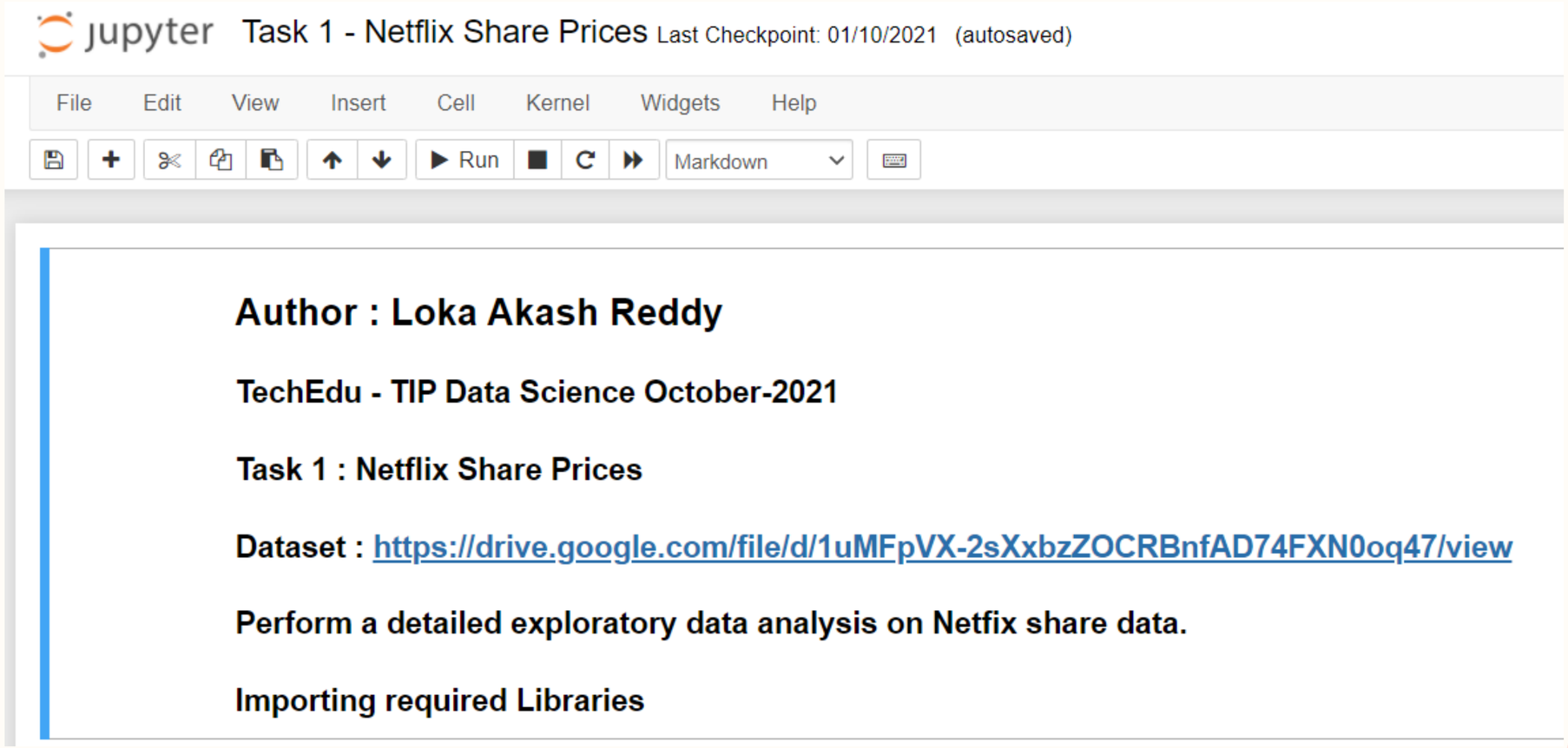
Expected submission:

01 Graphs representing variations in share prices

02 Reasons of share hike and fall of prices

EDA ON NETFLIX SHARE PRICES

Platform Used : Jupyter Notebook



Displaying the Dataset:

Out[4]:

	Date	High	Low	Open	Close	Volume	Adj Close
0	2002-05-23	1.242857	1.145714	1.156429	1.196429	104790000.0	1.196429
1	2002-05-24	1.225000	1.197143	1.214286	1.210000	11104800.0	1.210000
2	2002-05-28	1.232143	1.157143	1.213571	1.157143	6609400.0	1.157143
3	2002-05-29	1.164286	1.085714	1.164286	1.103571	6757800.0	1.103571
4	2002-05-30	1.107857	1.071429	1.107857	1.071429	10154200.0	1.071429
...	...	...	...	...	...	...	...
4851	2021-08-30	567.159973	556.450012	557.250000	566.179993	2434800.0	566.179993
4852	2021-08-31	569.479980	561.609985	566.119995	569.190002	2431900.0	569.190002
4853	2021-09-01	591.000000	569.000000	569.000000	582.070007	5626200.0	582.070007
4854	2021-09-02	598.760010	583.679993	583.679993	588.549988	6179900.0	588.549988
4855	2021-09-03	591.685120	583.140015	585.799988	589.520081	1589628.0	589.520081

4856 rows × 7 columns

Information about all the columns in the Dataset:

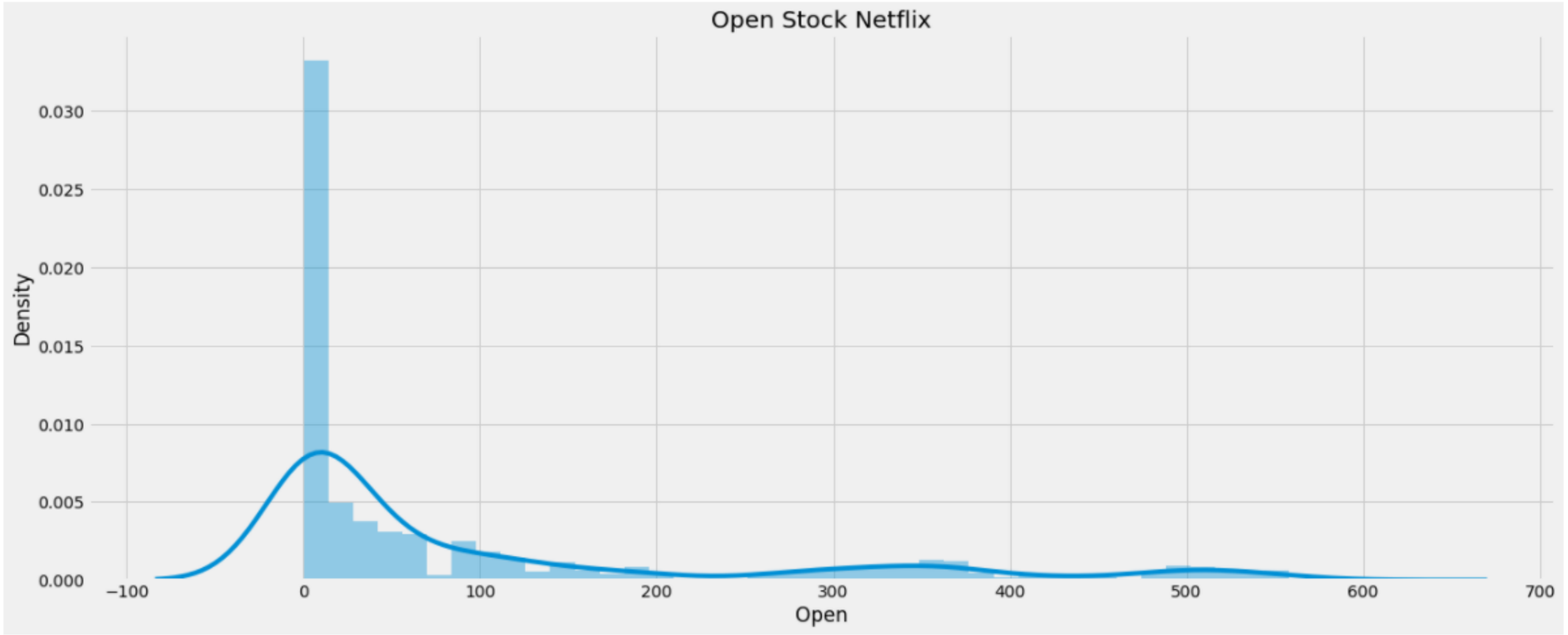
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4856 entries, 0 to 4855
Data columns (total 7 columns):
 #   Column     Non-Null Count  Dtype  
---  ------     --------------  -----  
 0   Date       4856 non-null   object 
 1   High       4856 non-null   float64
 2   Low        4856 non-null   float64
 3   Open       4856 non-null   float64
 4   Close      4856 non-null   float64
 5   Volume     4856 non-null   float64
 6   Adj Close  4856 non-null   float64
dtypes: float64(6), object(1)
memory usage: 265.7+ KB
```

Description of Dataset:

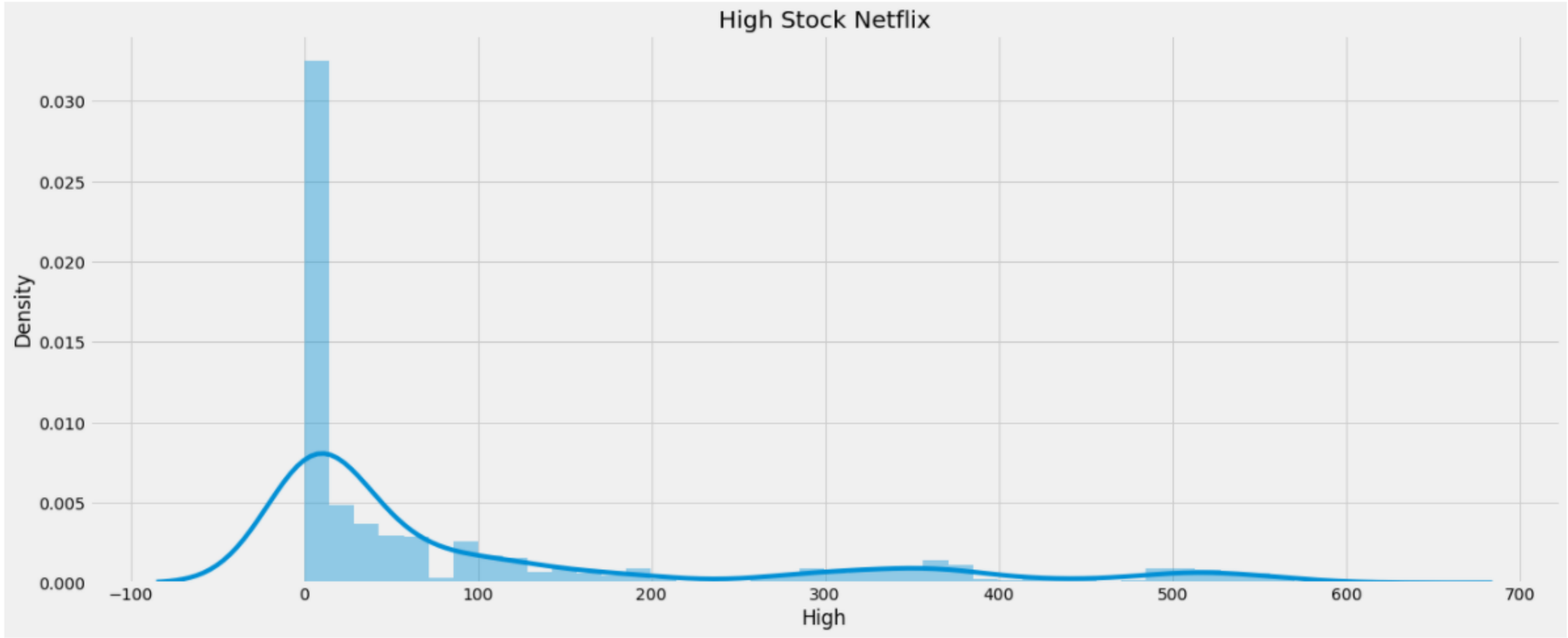
Out[11]:

	High	Low	Open	Close	Volume	Adj Close
count	4856.000000	4856.000000	4856.000000	4856.000000	4.856000e+03	4856.000000
mean	104.417595	101.223064	102.841799	102.882117	1.686502e+07	102.882117
std	155.588870	151.003701	153.329766	153.379795	1.939578e+07	153.379795
min	0.410714	0.346429	0.377857	0.372857	2.856000e+05	0.372857
25%	3.971072	3.830357	3.892857	3.893929	6.333750e+06	3.893929
50%	20.756429	20.010715	20.446428	20.429286	1.089410e+07	20.429286
75%	125.750000	122.302502	124.007502	123.742502	2.021828e+07	123.742502
max	598.760010	583.679993	585.799988	589.520081	3.234140e+08	589.520081

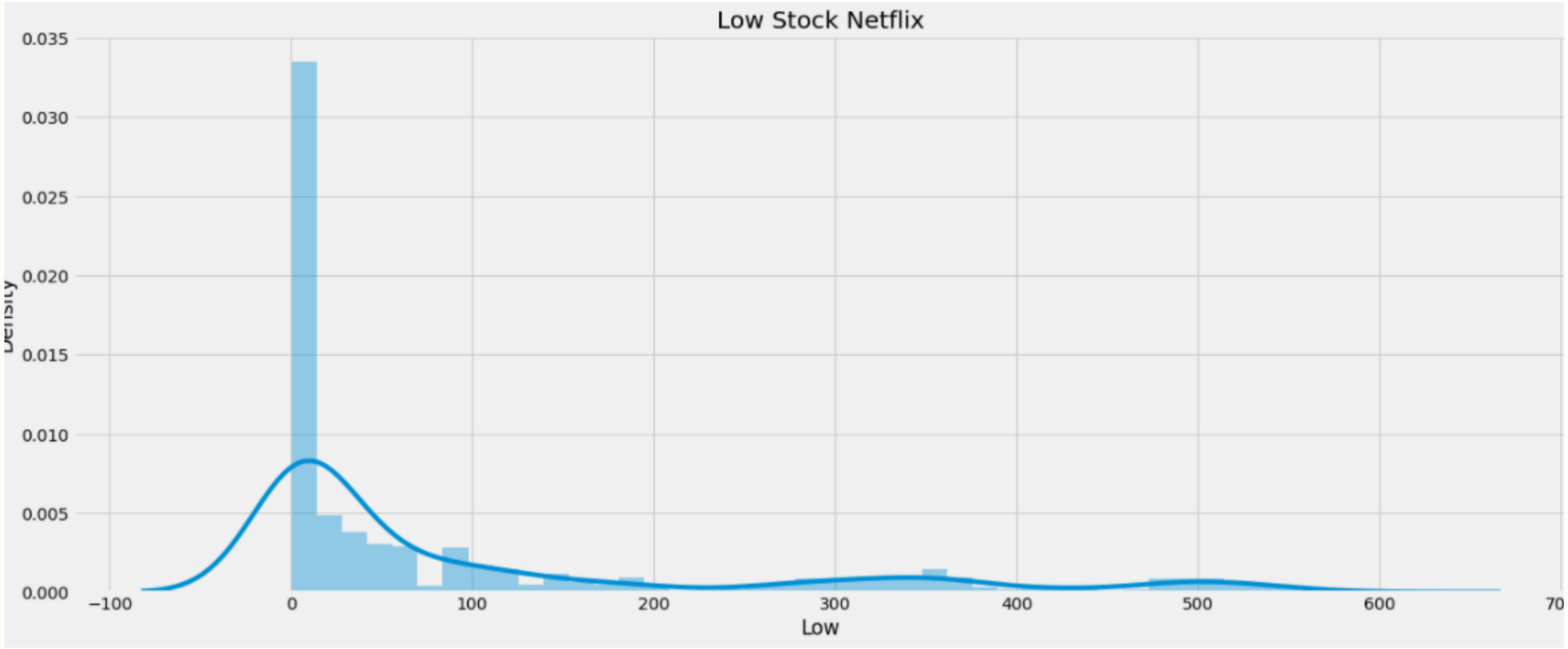
Analysis on Open Stock from 2002 - Current Year



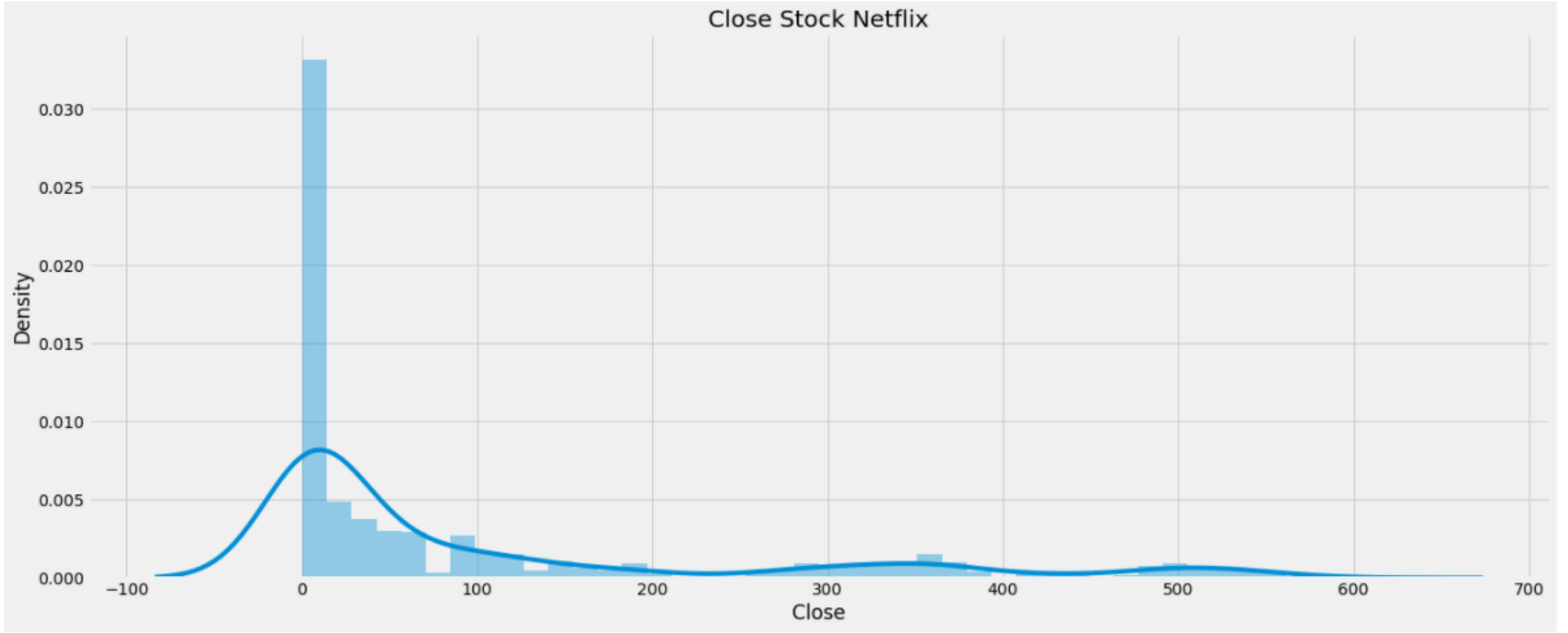
Analysis on High Stock from 2002 - Current Year



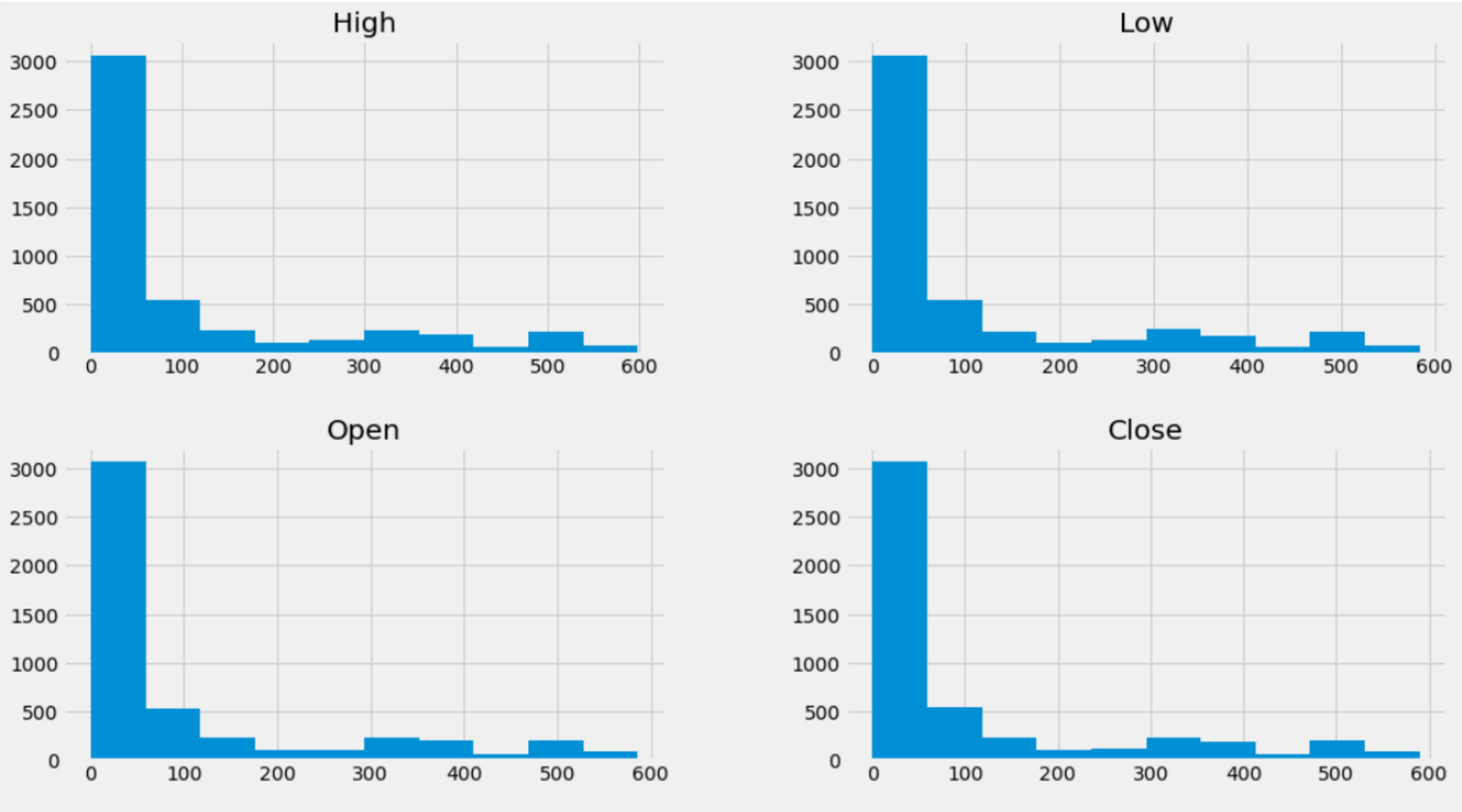
Analysis on Low Stock from 2002 - Current Year

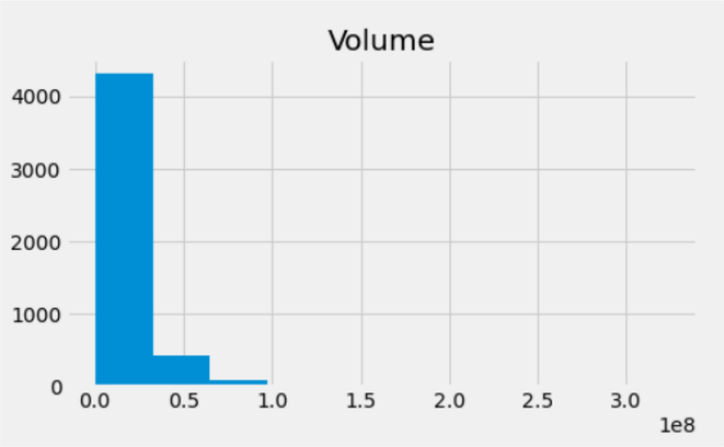


Analysis on Close Stock from 2002 - Current Year

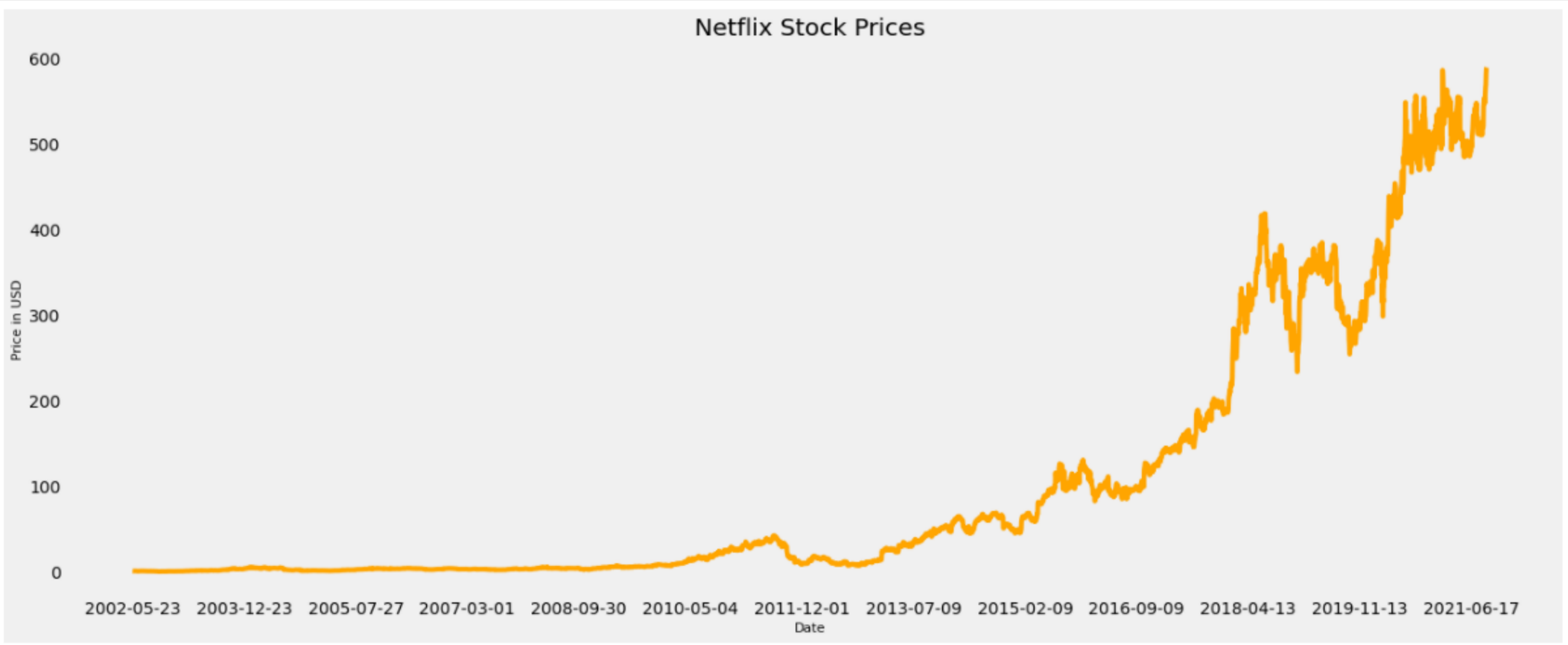


Plot of High, Open, Low, Close and Volume

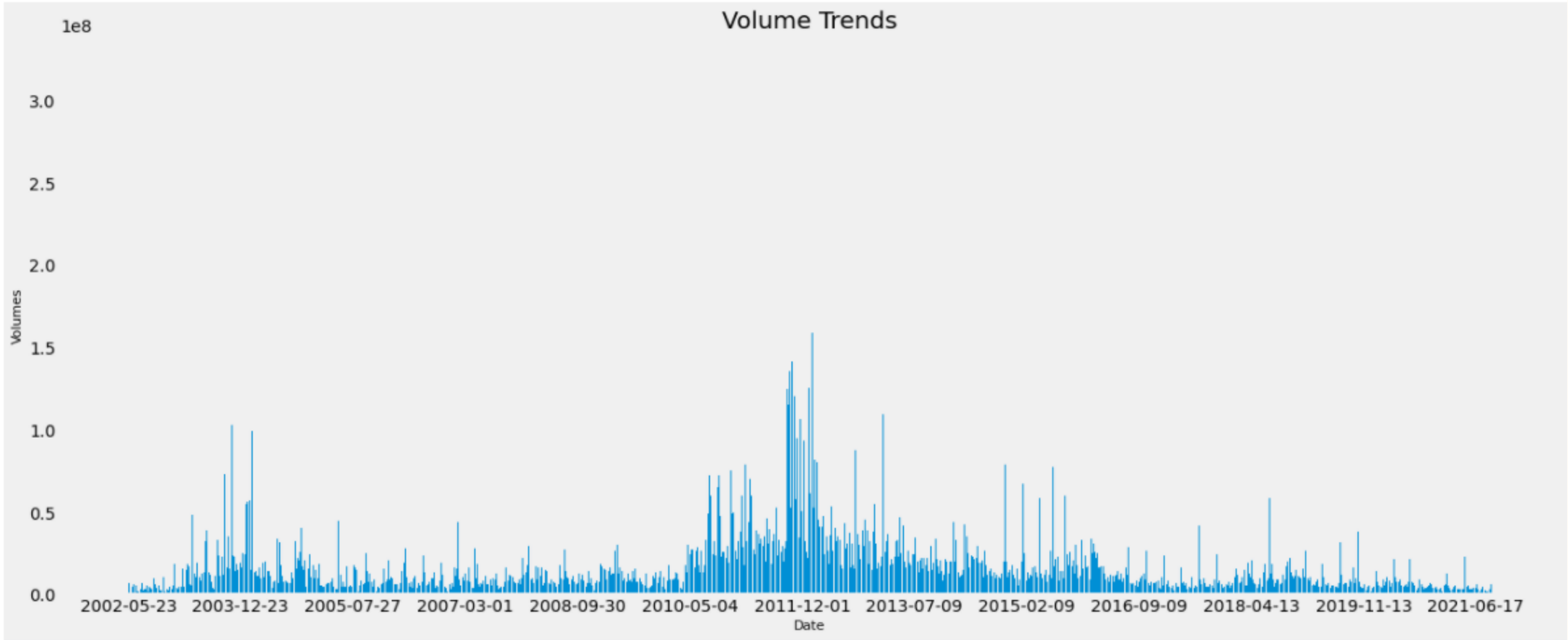




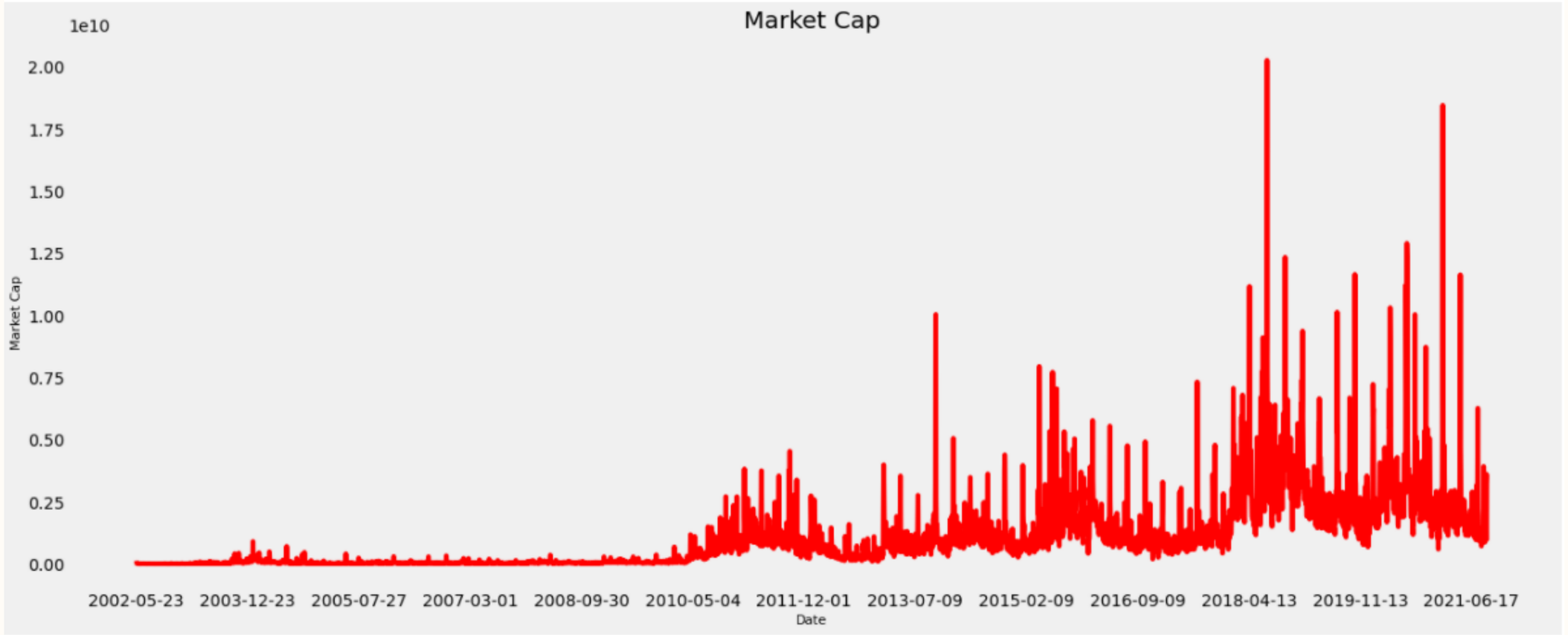
Data Visualization of Netflix Stock Prices from 2002 - Current Year



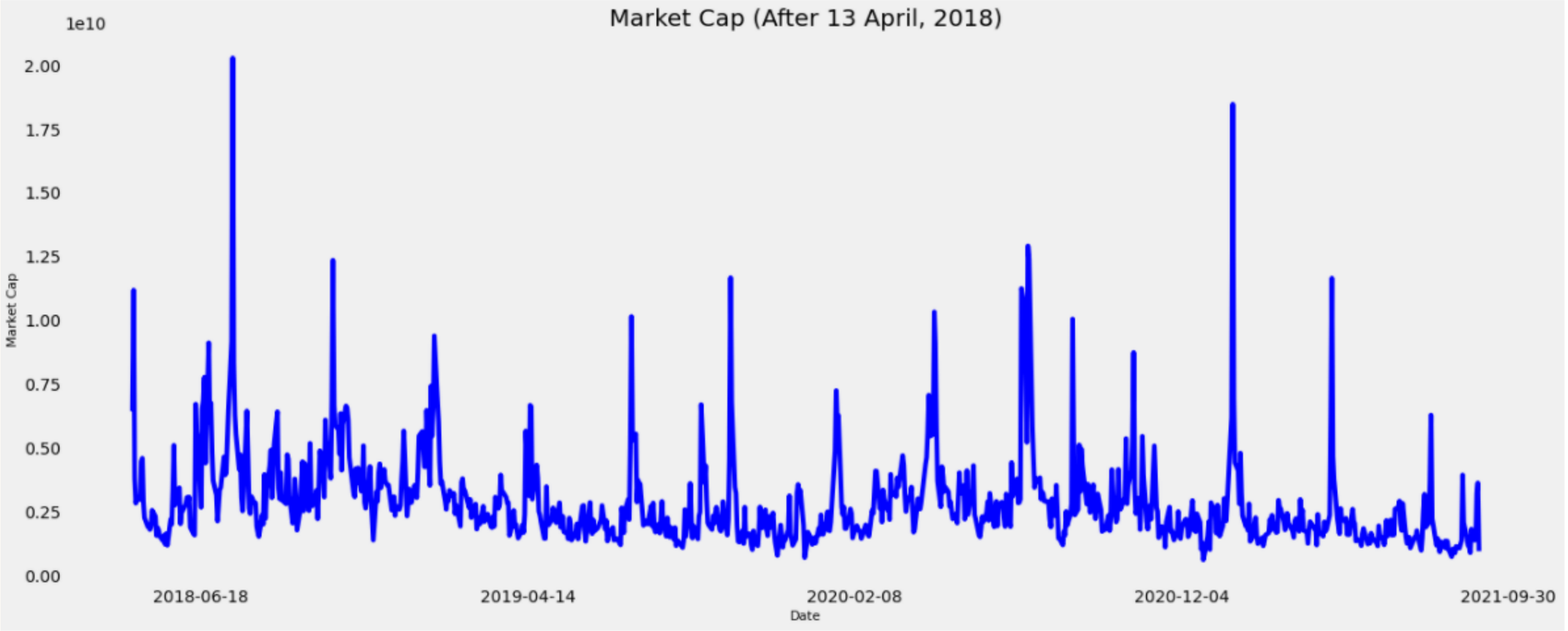
Volume Trends from 2002 - Current Year



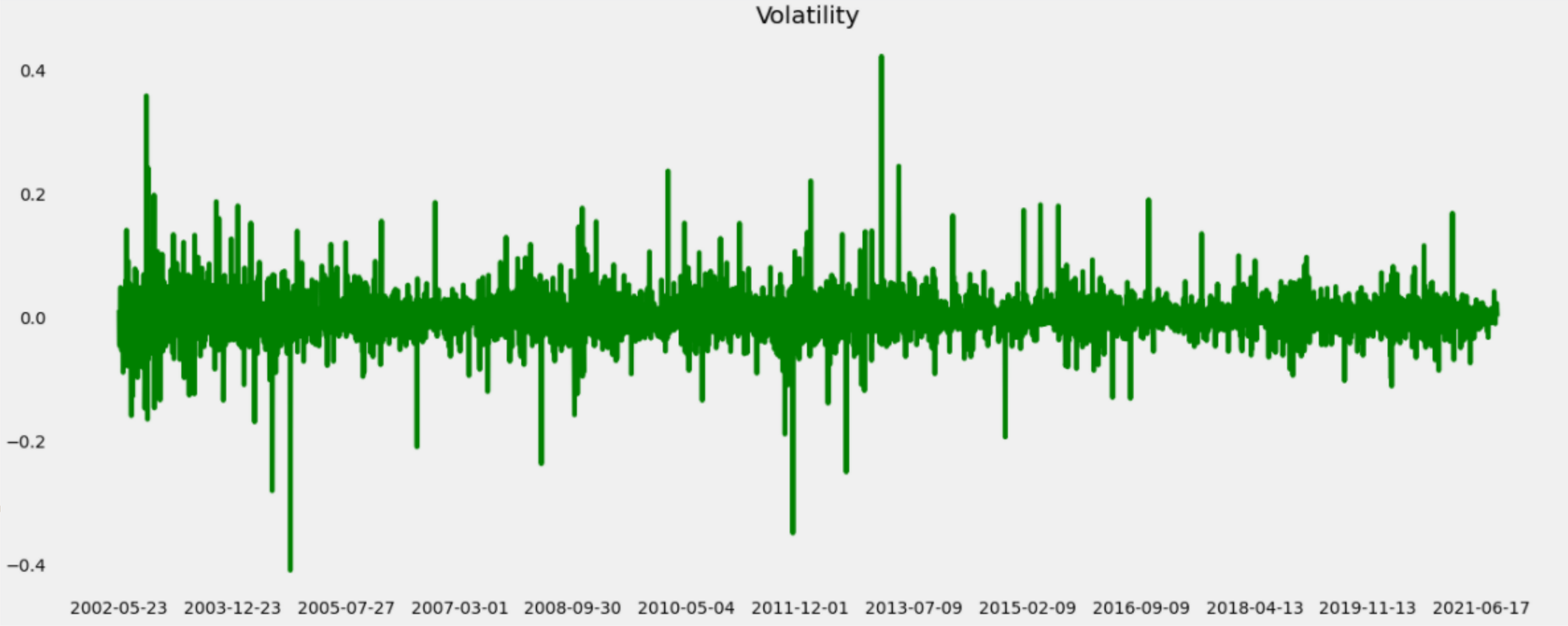
Market Cap from 2002 - Current Year



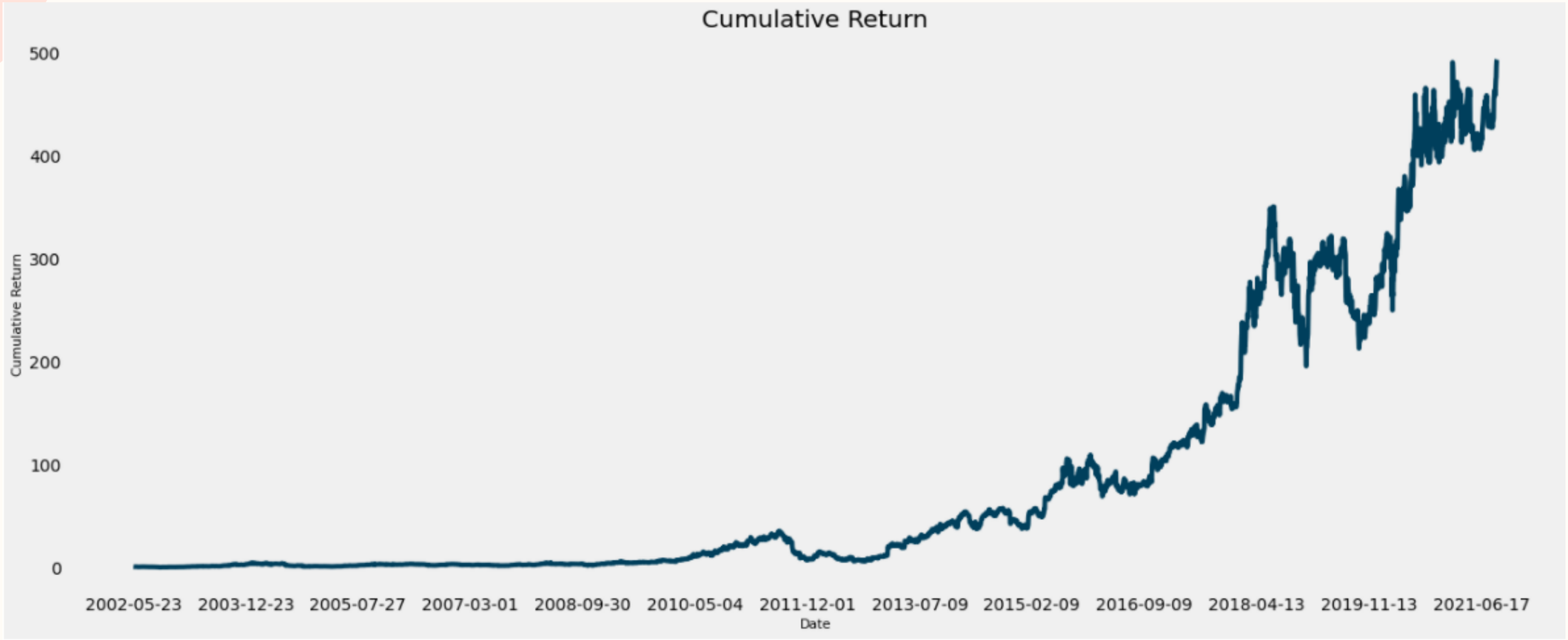
Market Cap from 2018 - Current Year



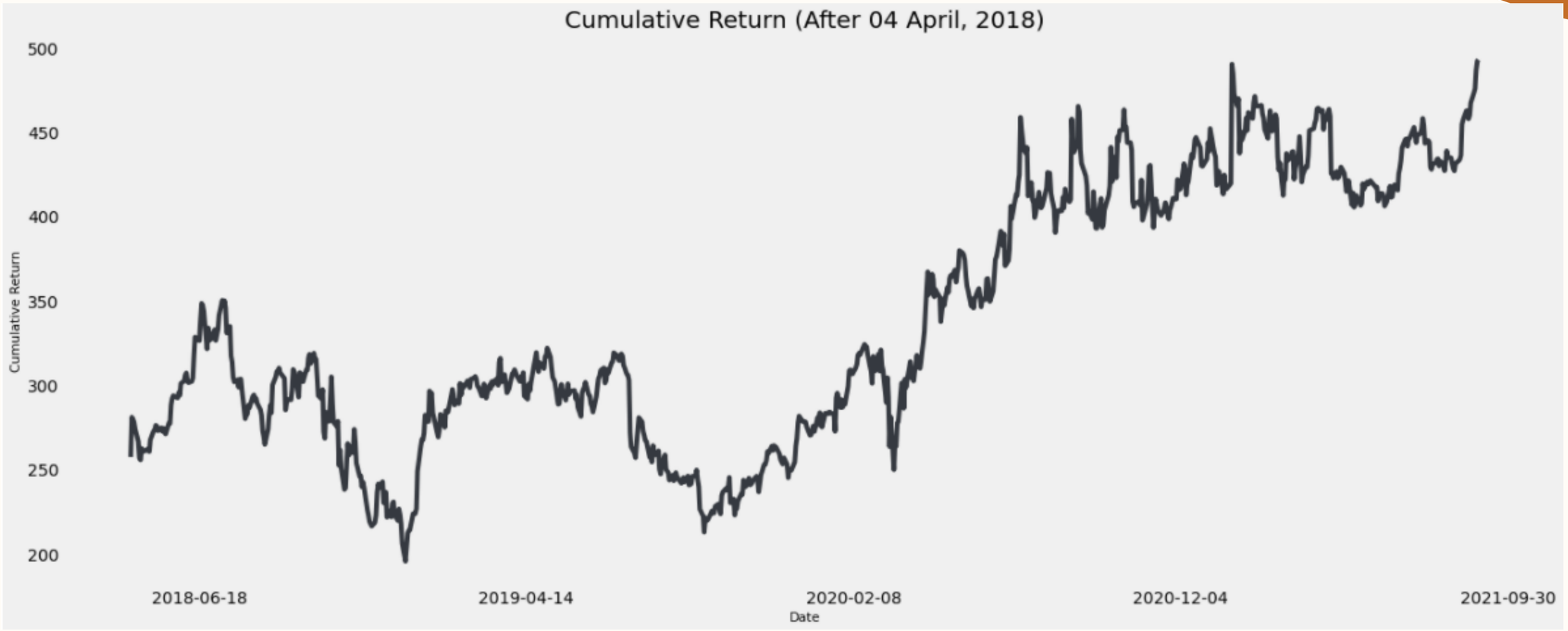
Volatility from 2002 - Current Year



Cumulative Return from 2002 - Current Year



Cumulative Return from 2018 - Current Year



Exploratory Data Analysis(EDA) refers to the critical process of performing initial investigations on data so as to discover patterns, to spot anomalies, to test hypothesis and to check assumptions with the help of summary statistics and graphical representations.

- Given Dataset comprises of 4856 rows and 6 columns.
- There are no missing values to be found.

These were the insights gained by the doing the EDA of the given Netflix Share Prices Dataset from the year 2002-Current Year in the form of graphical representation as well as in short key points.

Thank You!!