Industries Helping Hands

Project Code & Datasets

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Netflix Stock Prediction

```
import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
# Now some of Visualisation libraries
import matplotlib.pyplot as plt
import seaborn as sns
```

Data & EDA

In [2]:
```
df= pd.DataFrame(pd.read_csv("../input/netflix-stock-price-prediction/NFLX.csv"))
df.head()
```

Out[2]:

	Date	Open	High	Low	Close	Adj Close	Volume
0	2018-02-05	262.000000	267.899994	250.029999	254.259995	254.259995	11896100
1	2018-02-06	247.699997	266.700012	245.000000	265.720001	265.720001	12595800
2	2018-02-07	266.579987	272.450012	264.329987	264.559998	264.559998	8981500
3	2018-02-08	267.079987	267.619995	250.000000	250.100006	250.100006	9306700
4	2018-02-09	253.850006	255.800003	236.110001	249.470001	249.470001	16906900

Setting Date to Index

In [3]:
```
df.set_index('Date', inplace=True)
df.head()
```

Out[3]:

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	Open	High	Low	Close	Adj Close	Volume
Date						
2018-02-05	262.000000	267.899994	250.029999	254.259995	254.259995	11896100
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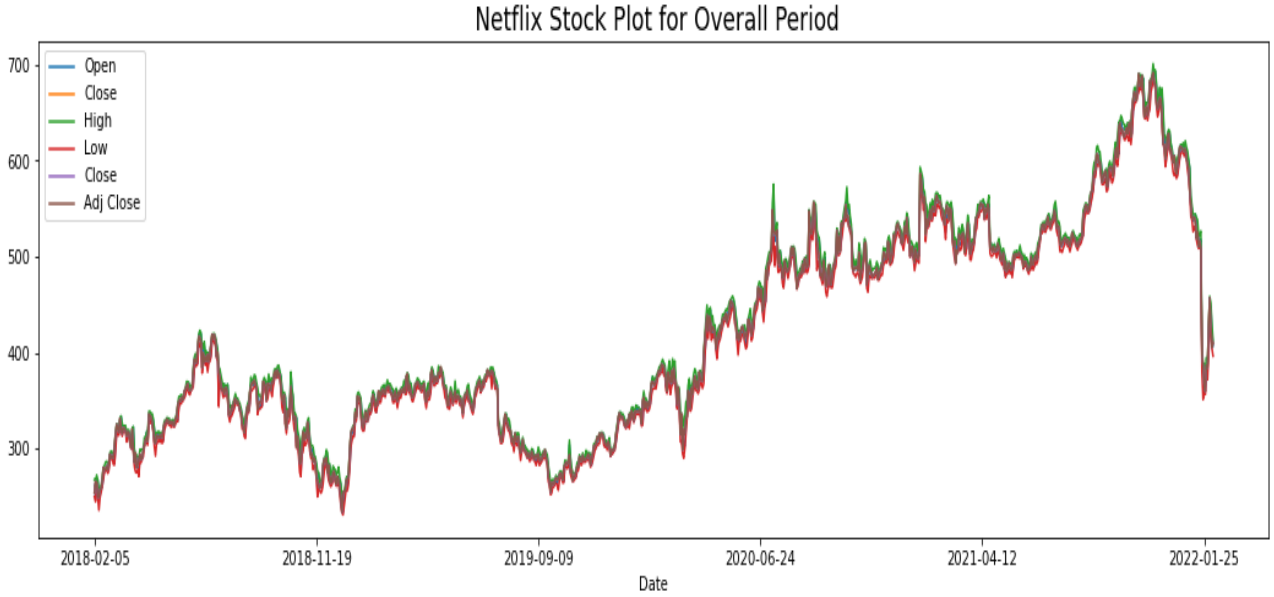
In [4]:
```
df[['Open', 'Close', 'High','Low','Close','Adj Close']].plot(figsize=(18,5))
plt.title(" Netflix Stock Plot for Overall Period", fontsize=17)
```

Out[4]:
```
Text(0.5, 1.0, ' Netflix Stock Plot for Overall Period')
```



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Top-5 Dates with Highest Stock Price

```
In [5]:
a = df.sort_values(by='High',ascending= False).head(5)
a['High']
```

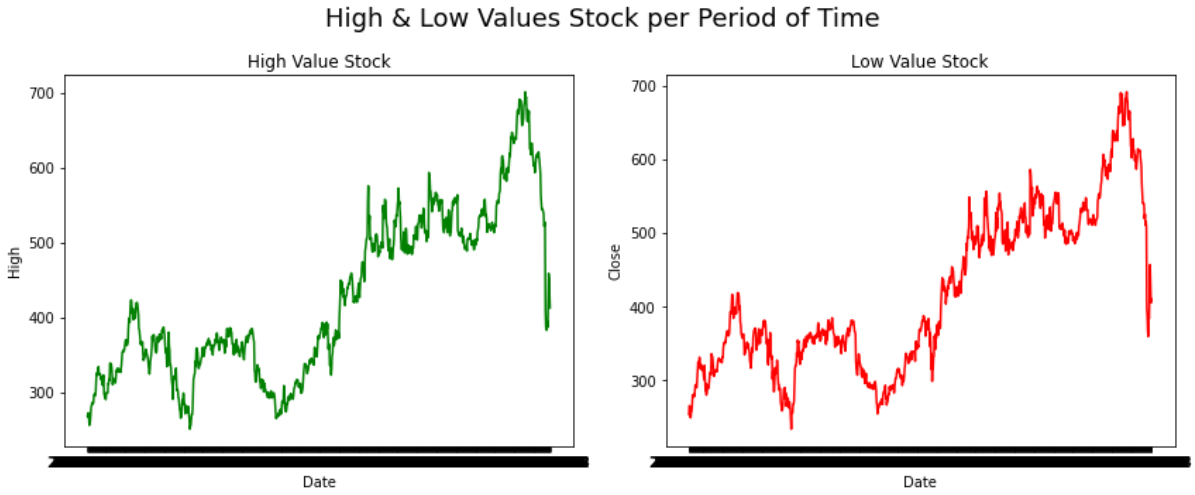
```
Out[5]:
Date
2021-11-17    700.989990
2021-11-19    694.159973
2021-11-18    691.739990
2021-10-29    690.969971
2021-11-01    689.969971
Name: High, dtype: float64
```

Top-5 Dates with Lowest Stock Price

```
In [6]:
b = df.sort_values(by='Low',ascending= True).head(5)
b['Low']
```

```
Out[6]:
Date
2018-12-26    231.229996
2018-12-24    233.679993
2018-02-09    236.110001
2018-12-27    240.100006
2018-12-21    241.289993
Name: Low, dtype: float64
```

```
In [7]:
fig,axes= plt.subplots(nrows=1,ncols=2, sharex=True, figsize=(12,5))
fig.suptitle('High & Low Values Stock per Period of Time',fontsize=18)
sns.lineplot(ax= axes[0], y=df['High'],x=df.index, color='green')
axes[0].set_title('High Value Stock')
sns.lineplot(ax= axes[1], y=df['Close'], x=df.index, color='red')
axes[1].set_title('Low Value Stock')
plt.tight_layout()
plt.show()
```



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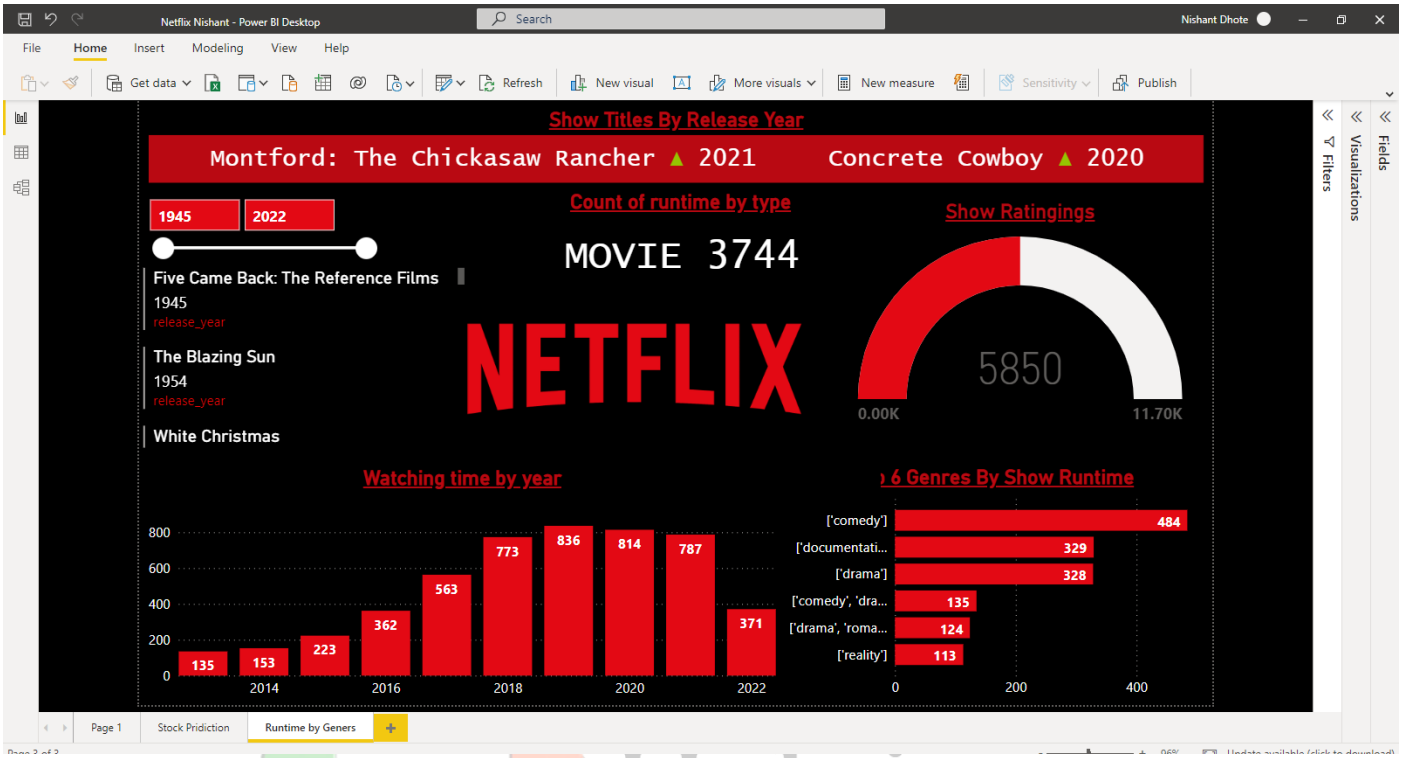
Power BI Dashboard Preview:



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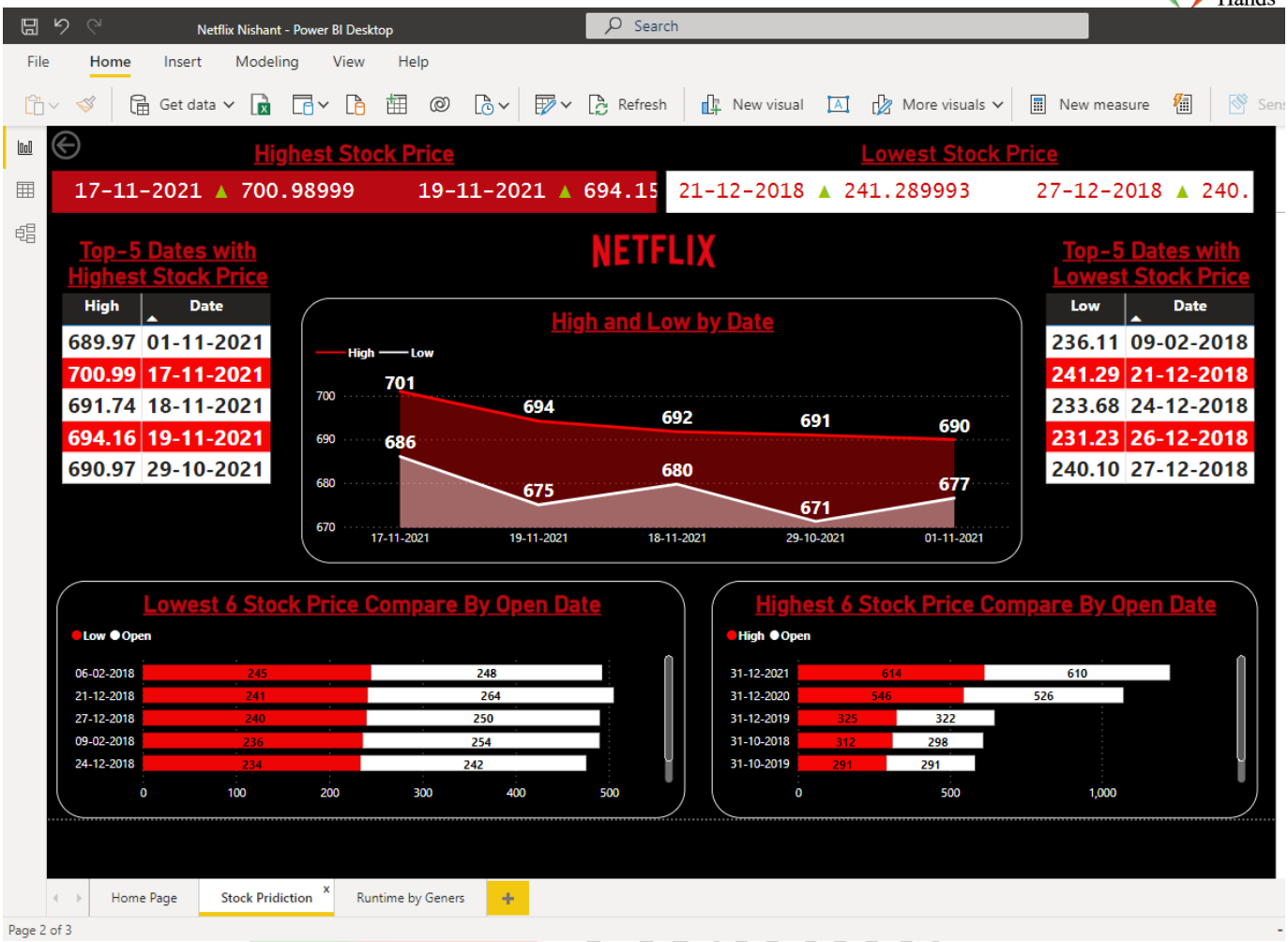

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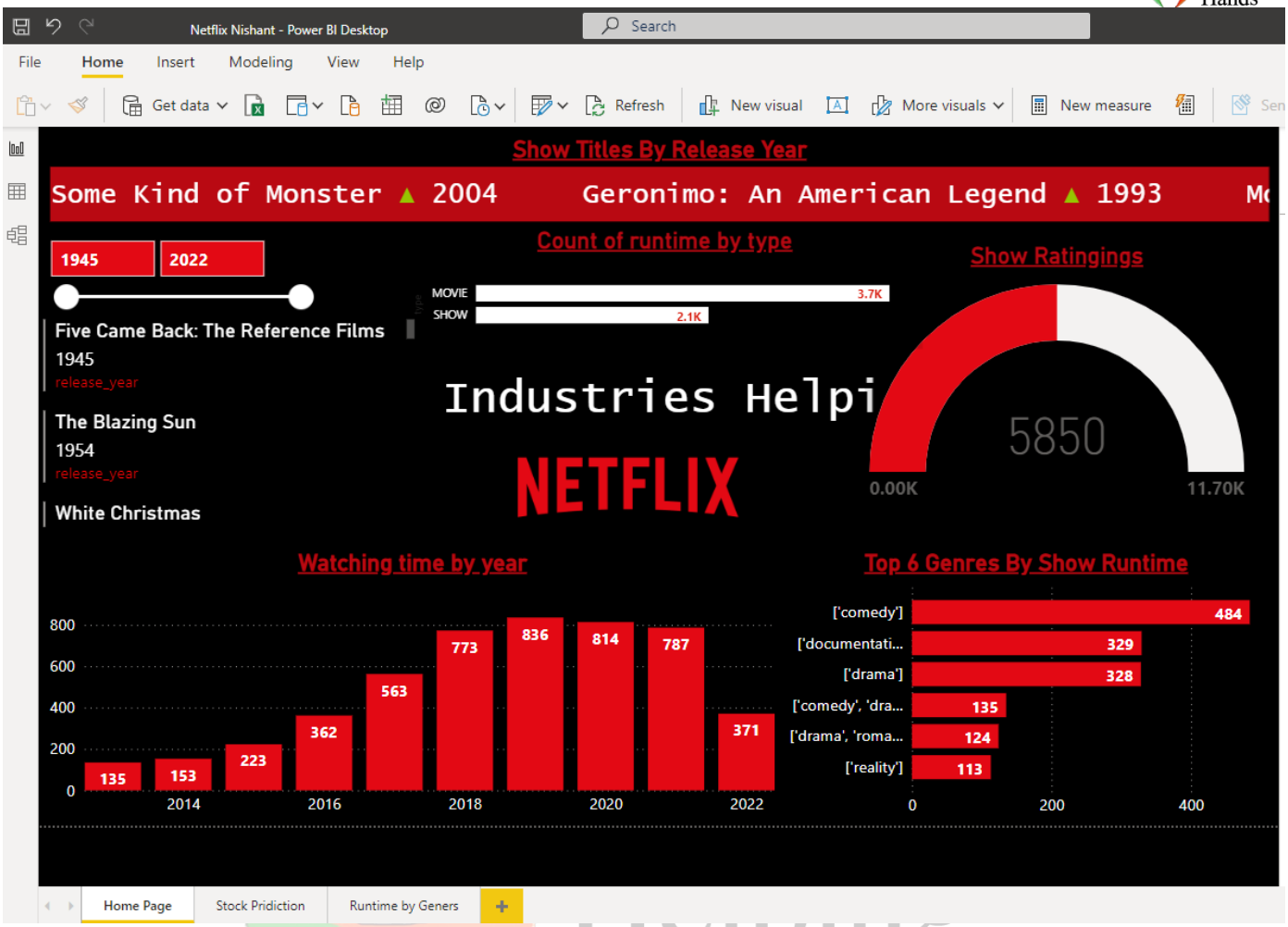

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