

# STOCK SHARE GRAPH OF GAMESTOP AND TESLA

```
!pip install yfinance==0.1.70
!mamba install bs4==4.10.0 -y
!pip install nbformat==4.2.0
```

```
import warnings
# Ignore all warnings
warnings.filterwarnings("ignore", category=FutureWarning)
```

```
def make_graph(stock_data, revenue_data, stock):
    fig = make_subplots(rows=2, cols=1, shared_xaxes=True, subplot_titles=("Historical Share Price",
    "Historical Revenue"), vertical_spacing = .3)
    stock_data_specific = stock_data[stock_data.Date <= '2021-06-14']
    revenue_data_specific = revenue_data[revenue_data.Date <= '2021-04-30']
    fig.add_trace(go.Scatter(x=pd.to_datetime(stock_data_specific.Date, infer_datetime_format=True),
    y=stock_data_specific.Close.astype("float"), name="Share Price"), row=1, col=1)
    fig.add_trace(go.Scatter(x=pd.to_datetime(revenue_data_specific.Date, infer_datetime_format=True),
    y=revenue_data_specific.Revenue.astype("float"), name="Revenue"), row=2, col=1)
    fig.update_xaxes(title_text="Date", row=1, col=1)
    fig.update_xaxes(title_text="Date", row=2, col=1)
    fig.update_yaxes(title_text="Price ($US)", row=1, col=1)
    fig.update_yaxes(title_text="Revenue ($US Millions)", row=2, col=1)
    fig.update_layout(showlegend=False,
    height=900,
    title=stock,
    xaxis_rangeflider_visible=True)
    fig.show()
```

# ANALYZE OF TESLA DATA

```
tesla = yf.Ticker("TSLA")
tesla_data = tesla.history(period="max")
```

tesla\_data

Out[6]:

	Open	High	Low	Close	Volume	Dividends	Stock Splits
Date							
2010-06-29	1.266667	1.666667	1.169333	1.592667	281494500	0	0.0
2010-06-30	1.719333	2.028000	1.553333	1.588667	257806500	0	0.0
2010-07-01	1.666667	1.728000	1.351333	1.464000	123282000	0	0.0
2010-07-02	1.533333	1.540000	1.247333	1.280000	77097000	0	0.0
2010-07-06	1.333333	1.333333	1.055333	1.074000	103003500	0	0.0
...	...	...	...	...	...	...	...
2024-01-03	244.979996	245.679993	236.320007	238.449997	121082600	0	0.0
2024-01-04	239.250000	242.699997	237.729996	237.929993	102629300	0	0.0
2024-01-05	236.860001	240.119995	234.899994	237.490005	92379400	0	0.0
2024-01-08	236.139999	241.250000	235.300003	240.449997	85166600	0	0.0
2024-01-09	238.110001	238.964600	232.039993	234.960007	96409241	0	0.0

3406 rows × 7 columns

```
tesla_data.reset_index(inplace=True)
```

```
tesla_data.head()
```

Out[7]:

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2010-06-29	1.266667	1.666667	1.169333	1.592667	281494500	0	0.0
1	2010-06-30	1.719333	2.028000	1.553333	1.588667	257806500	0	0.0
2	2010-07-01	1.666667	1.728000	1.351333	1.464000	123282000	0	0.0
3	2010-07-02	1.533333	1.540000	1.247333	1.280000	77097000	0	0.0
4	2010-07-06	1.333333	1.333333	1.055333	1.074000	103003500	0	0.0

```
url = "https://cf-courses-data.s3.us.cloud-object-  
storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-  
SkillsNetwork/labs/project/revenue.htm"
```

```
html_data = requests.get(url)
```

```
html_data
```

```
soup = BeautifulSoup(html_data.text)
```

```
tesla_revenue = pd.DataFrame(columns = ['Date', 'Revenue'])
```

```

for row in soup.find_all("tbody")[1].find_all("tr"):
    col = row.find_all("td")
    date = col[0].text
    revenue = col[1].text.replace("$", "").replace(",", "")

    tesla_revenue = tesla_revenue.append({"Date": date, "Revenue": revenue}, ignore_index = True)
tesla_revenue["Revenue"] = tesla_revenue['Revenue'].str.replace(',', '\$', "")
tesla_revenue.dropna(inplace=True)

tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
tesla_revenue.tail()

```

Out[13]:

	Date	Revenue
48	2010-09-30	31
49	2010-06-30	28
50	2010-03-31	21
52	2009-09-30	46
53	2009-06-30	27

# ANALYZE OF GAMESTOP DATA

```
ticker2 = yf.Ticker("GME")
```

```
gme_data = ticker2.history(period = "max")
```

```
gme_data
```

Out[15]:								
		Open	High	Low	Close	Volume	Dividends	Stock Splits
Date								
2002-02-13		1.620129	1.693350	1.603296	1.691667	76216000	0.0	0.0
2002-02-14		1.712707	1.716074	1.670626	1.683251	11021600	0.0	0.0
2002-02-15		1.683250	1.687458	1.658002	1.674834	8389600	0.0	0.0
2002-02-19		1.666418	1.666418	1.578047	1.607504	7410400	0.0	0.0
2002-02-20		1.615920	1.662210	1.603296	1.662210	6892800	0.0	0.0
...		...	...	...	...	...	...	...
2024-01-03		16.299999	16.830000	15.900000	16.690001	4193600	0.0	0.0
2024-01-04		16.510000	16.750000	16.309999	16.360001	2671500	0.0	0.0
2024-01-05		16.160000	16.520000	15.960000	15.960000	2615700	0.0	0.0
2024-01-08		15.780000	16.120001	15.700000	15.790000	3031100	0.0	0.0
2024-01-09		15.590000	15.615000	15.120100	15.160000	2859166	0.0	0.0
5514 rows × 7 columns								

```
url = "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/stock.html"
```

```
html_data = requests.get(url)
```

```
soup = BeautifulSoup(html_data.text)
```

```
gme_revenue = pd.DataFrame(columns = ['Date', 'Revenue'])
```

```
for row in soup.find_all("tbody")[1].find_all("tr"):
```

```
    col = row.find_all("td")
```

```
    date = col[0].text
```

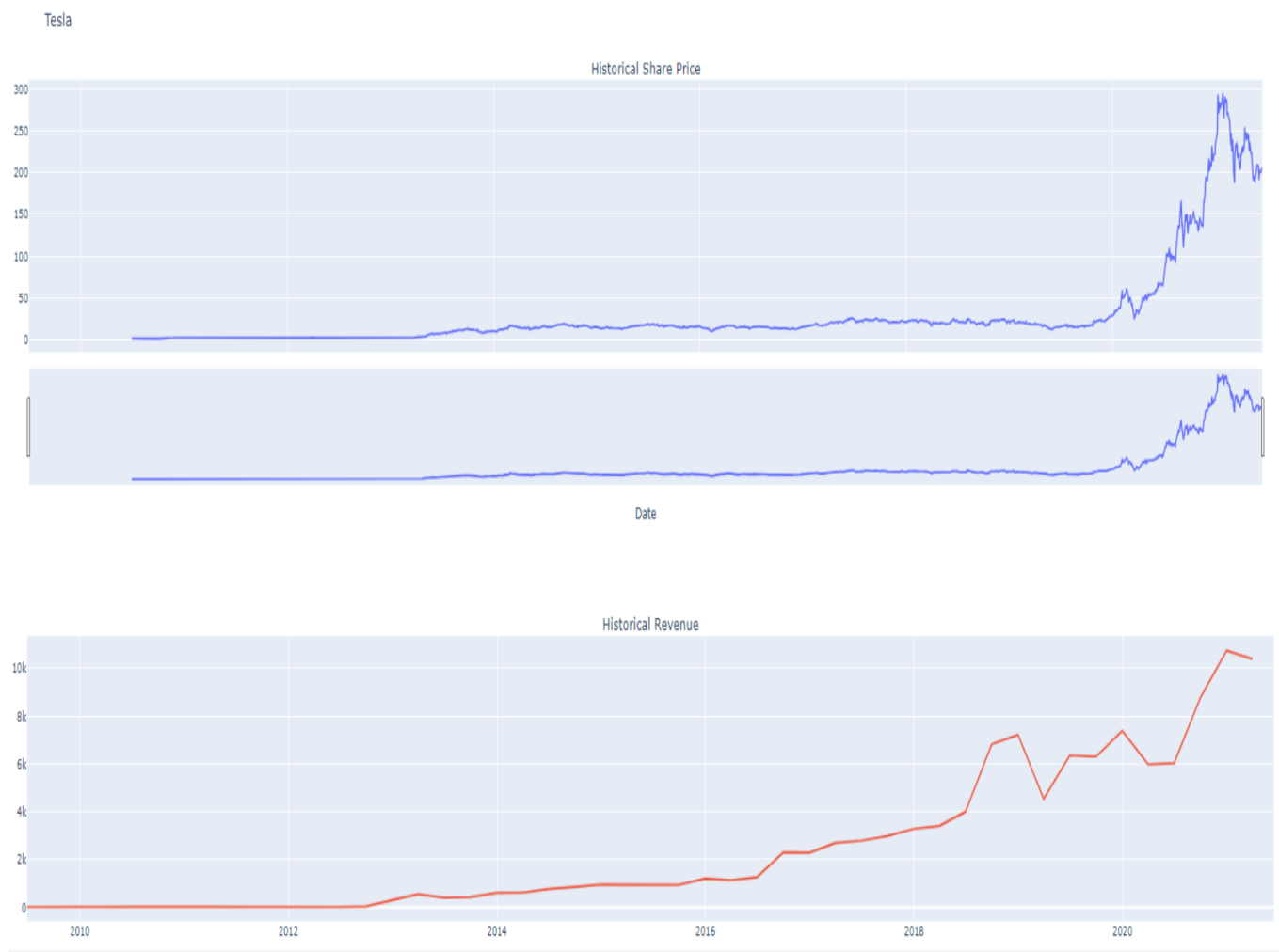
```
    revenue = col[1].text.replace("$", "").replace(", ", "")
```

```
gme_revenue = gme_revenue.append({"Date": date, "Revenue": revenue}, ignore_index = True)
gme_revenue.tail()
```

Out[20]:

	Date	Revenue
57	2006-01-31	1667
58	2005-10-31	534
59	2005-07-31	416
60	2005-04-30	475
61	2005-01-31	709

```
make_graph(tesla_data, tesla_revenue, "Tesla")
```



```
make_graph(gme_data, gme_revenue, 'GameStop')
```

