```
import yfinance as yf
import pandas as pd
import requests
from bs4 import BeautifulSoup
import plotly.graph_objects as go
from plotly.subplots import make_subplots
import matplotlib.pyplot as plt
```

Question 1 - Extracting Tesla Stock Data Using yfinance

```
tesla = yf.Ticker('TSLA')
tesla_data = tesla.history(period="1mo")
tesla_data.reset_index(inplace=True)
tesla_data.head()
```

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2025-03-25 00:00:00-04:00	283.600006	288.200012	271.279999	288.140015	150361500	0.0	0.0
1	2025-03-26 00:00:00-04:00	282.660004	284.899994	266.510010	272.059998	153629800	0.0	0.0
2	2025-03-27 00:00:00-04:00	272.480011	291.850006	271.820007	273.130005	162572100	0.0	0.0

Next steps: Generate code with `tesla_data` View recommended plots New interactive sheet

Question 2 - Extracting Tesla Revenue Data Using Webscraping

```
url = "https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue"
headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
response = requests.get(url, headers=headers)
tables = pd.read_html(response.text, match="Tesla Quarterly Revenue", flavor='bs4')
tesla_revenue = tables[0]
tesla_revenue.columns = ["Date", "Revenue"]
tesla_revenue["Revenue"] = tesla_revenue["Revenue"].str.replace(",", "").str.replace("$", "")
tesla_revenue.dropna(inplace=True)
tesla_revenue.head()
```

```
<ipython-input-23-952f0594763b>:4: FutureWarning: Passing literal html to 'read_html' is deprec
  tables = pd.read_html(response.text, match="Tesla Quarterly Revenue", flavor='bs4')
```

	Date	Revenue
0	2025-03-31	19335
1	2024-12-31	25707
2	2024-09-30	25182
3	2024-06-30	25500
4	2024-03-31	21301

Next steps: Generate code with tesla_revenue | View recommended plots | New interactive sheet

Question 3 - Extracting GameStop Stock Data Using yfinance

```
gme = yf.Ticker("GME")
gme_data = gme.history(period="max")
gme_data.reset_index(inplace=True)
gme_data.head()
```

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2002-02-13 00:00:00-05:00	1.620129	1.693350	1.603296	1.691667	76216000	0.0	0.0
1	2002-02-14 00:00:00-05:00	1.712707	1.716074	1.670626	1.683251	11021600	0.0	0.0
2	2002-02-15 00:00:00-05:00	1.683251	1.687459	1.658002	1.674834	8389600	0.0	0.0
3	2002-02-19 00:00:00-05:00	1.666418	1.666418	1.578047	1.607504	7410400	0.0	0.0
4	2002-02-20 00:00:00-05:00	1.615921	1.662210	1.603296	1.662210	6892800	0.0	0.0

Next steps: Generate code with gme_data | View recommended plots | New interactive sheet

Question 4 - Extracting Gamestop Revenue Data Using Webscraping

```
url="https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue"
headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
response = requests.get(url, headers=headers)
html_data = response.text
soup = BeautifulSoup(html_data, "html5lib")
tables = pd.read_html(response.text, match="GameStop Quarterly Revenue", flavor='bs4')
gme_revenue = tables[0]
gme_revenue.columns = ["Date", "Revenue"]
gme_revenue["Revenue"] = gme_revenue["Revenue"].str.replace(",", "").str.replace("$", "")
gme_revenue.dropna(inplace=True)
gme_revenue.head()
```

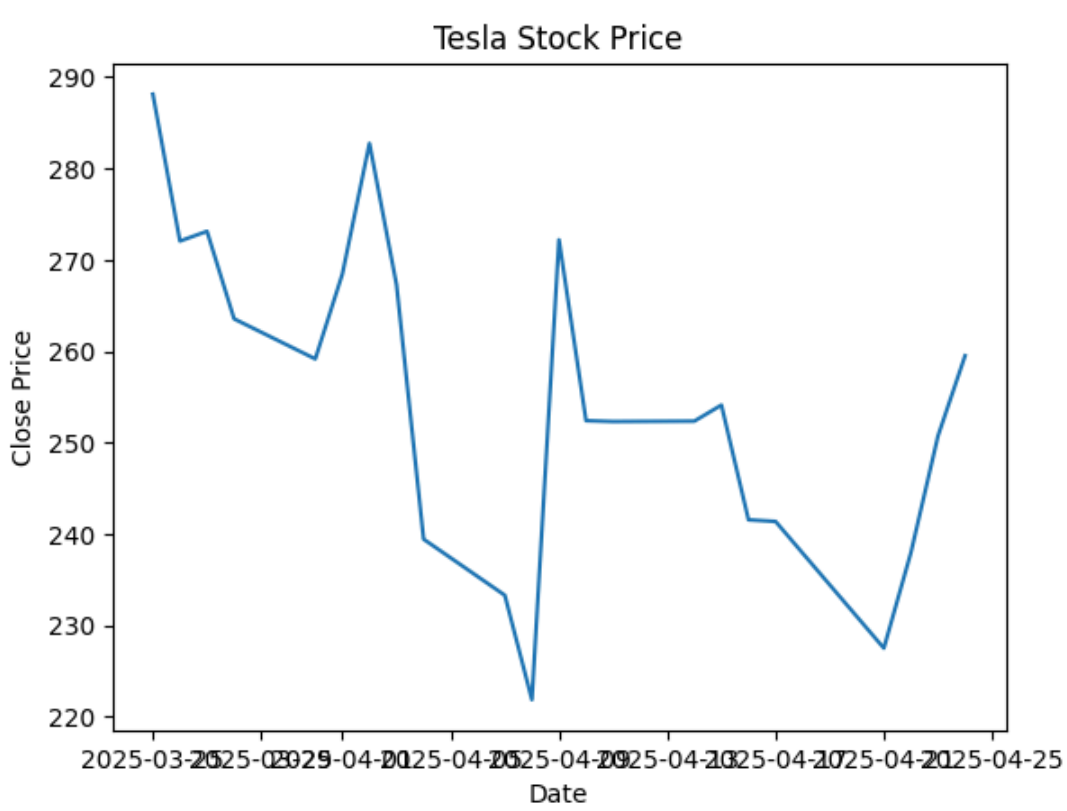
```
<ipython-input-15-7103cb768fd5>:6: FutureWarning: Passing literal html to 'read_html' is deprec
  tables = pd.read_html(response.text, match="GameStop Quarterly Revenue", flavor='bs4')
```

	Date	Revenue
0	2025-01-31	1283
1	2024-10-31	860
2	2024-07-31	798
3	2024-04-30	882
4	2024-01-31	1794

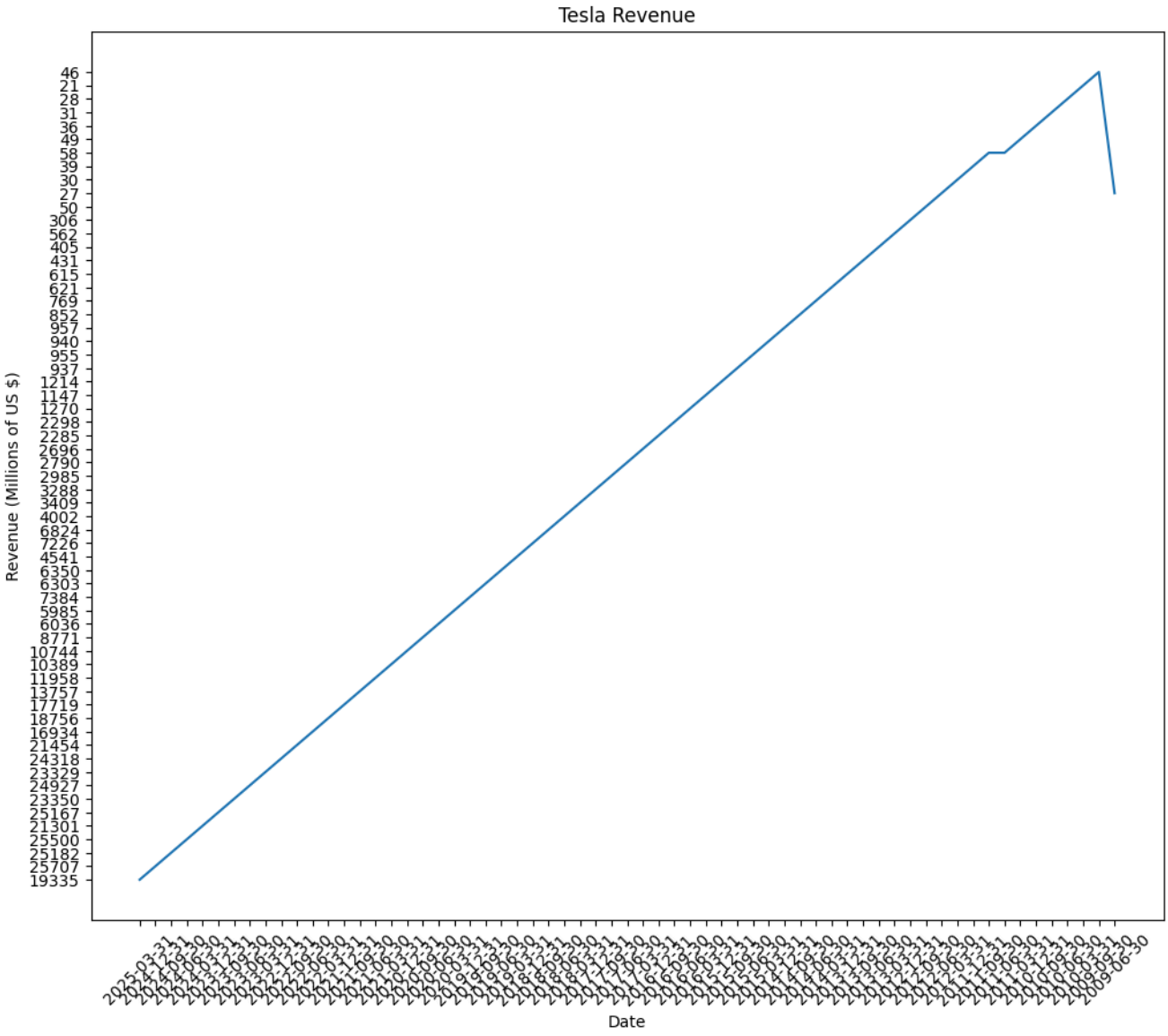
Next steps: Generate code with gme_revenue | View recommended plots | New interactive sheet

Question 5 - Tesla Stock and Revenue Dashboard

```
plt.plot(tesla_data['Date'], tesla_data['Close'])
plt.title("Tesla Stock Price")
plt.xlabel("Date")
plt.ylabel("Close Price")
plt.show()
```

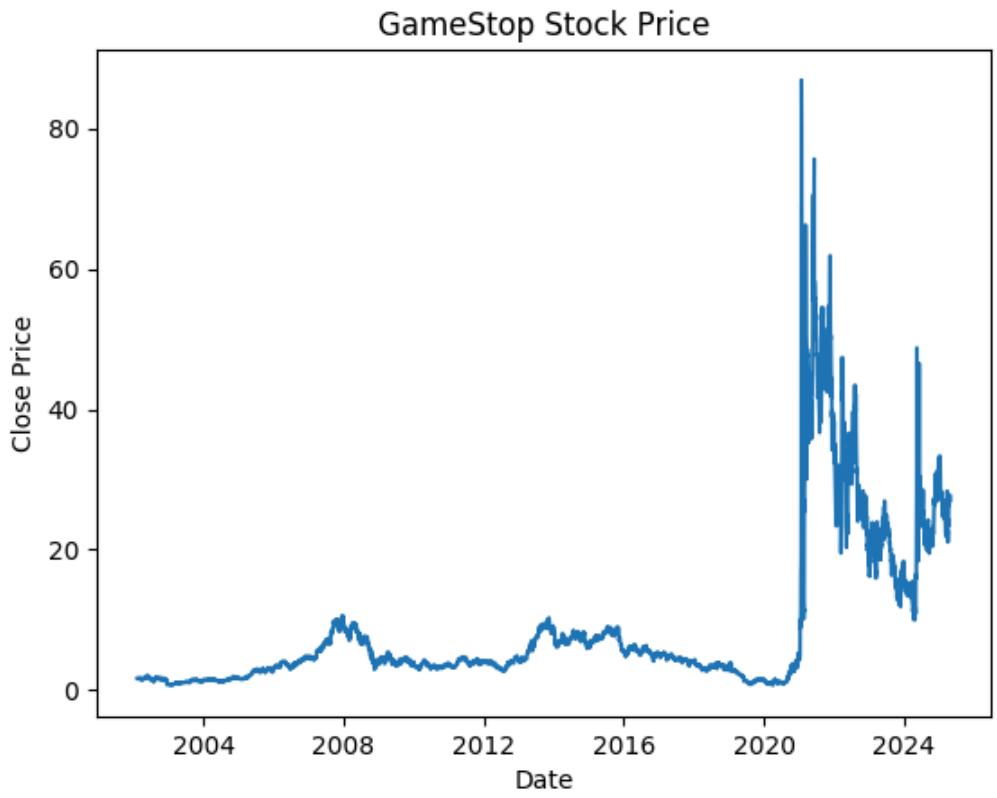



```
plt.figure(figsize=(12, 10))
plt.plot(tesla_revenue['Date'], tesla_revenue['Revenue'])
plt.title("Tesla Revenue")
plt.xlabel("Date")
plt.ylabel("Revenue (Millions of US $)")
plt.xticks(rotation=45)
plt.show()
```

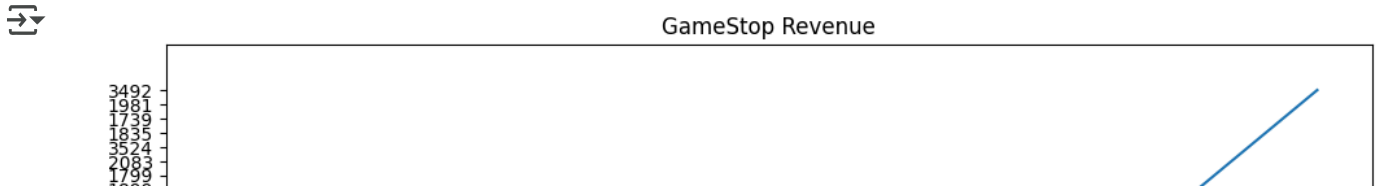


Question 6 - GameStop Stock and Revenue Dashboard

```
plt.plot(gme_data['Date'], gme_data['Close'])
plt.title("GameStop Stock Price")
plt.xlabel("Date")
plt.ylabel("Close Price")
plt.show()
```




```
plt.figure(figsize=(12, 10))
plt.plot(gme_revenue['Date'], gme_revenue['Revenue'])
plt.title("GameStop Revenue")
plt.xlabel("Date")
plt.ylabel("Revenue (Millions of US $)")
plt.xticks(rotation=45)
plt.show()
```


GameStop Revenue
3492
1981
1739
1835
3524
2083
1799