

```
In [4]: 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
```

```
In [5]: url=" https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue."
html_data=requests.get(url).text
```

```
In [6]: 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"), vert:
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
fig.add_trace(go.Scatter(x=pd.to_datetime(revenue_data_specific.Date, infer_datetime_format=True), y=revenue_data_specific.Re
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()
```

```
In [7]: beautiful_soup=BeautifulSoup(html_data,"lxml")
```

```
In [8]: tables=beautiful_soup.find_all("table")
for index,table in enumerate(tables):
    if("Tesla Quarterly Revenue" in str(table)):
        table_index=index
tesla_revenue=pd.DataFrame(columns=["Date", "Revenue"])

for row in tables[table_index].tbody.find_all('tr'):
    col=row.find_all("td")
    if(col!=[]):
        date=col[0].text
        revenue=col[1].text.strip().replace("$","").replace(",","")
```

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

[illegible]

```
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```

Out[8]:

	Date	Revenue
0	2023-03-31	23329
1	2022-12-31	24318
2	2022-09-30	21454
3	2022-06-30	16934
4	2022-03-31	18756

In [9]:

```
print(tesla_revenue)

tesla_revenue.dropna(inplace=True)
not_empty=tesla_revenue["Revenue"]!=" "
tesla_revenue=tesla_revenue[not_empty]
```

	Date	Revenue
0	2023-03-31	23329
1	2022-12-31	24318
2	2022-09-30	21454
3	2022-06-30	16934
4	2022-03-31	18756
5	2021-12-31	17719
6	2021-09-30	13757
7	2021-06-30	11958
8	2021-03-31	10389
9	2020-12-31	10744
10	2020-09-30	8771
11	2020-06-30	6036
12	2020-03-31	5985
13	2019-12-31	7384
14	2019-09-30	6303
15	2019-06-30	6350
16	2019-03-31	4541
17	2018-12-31	7226
18	2018-09-30	6824
19	2018-06-30	4002
20	2018-03-31	3409
21	2017-12-31	3288
22	2017-09-30	2985
23	2017-06-30	2790
24	2017-03-31	2696
25	2016-12-31	2285
26	2016-09-30	2298
27	2016-06-30	1270
28	2016-03-31	1147
29	2015-12-31	1214
30	2015-09-30	937
31	2015-06-30	955
32	2015-03-31	940
33	2014-12-31	957
34	2014-09-30	852
35	2014-06-30	769
36	2014-03-31	621
37	2013-12-31	615
38	2013-09-30	431
39	2013-06-30	405
40	2013-03-31	562
41	2012-12-31	306
42	2012-09-30	50

43	2012-06-30	27
44	2012-03-31	30
45	2011-12-31	39
46	2011-09-30	58
47	2011-06-30	58
48	2011-03-31	49
49	2010-12-31	36
50	2010-09-30	31
51	2010-06-30	28
52	2010-03-31	21
53	2009-12-31	
54	2009-09-30	46
55	2009-06-30	27

In [10]: `tesla_revenue.tail()`

Out[10]:

	Date	Revenue
50	2010-09-30	31
51	2010-06-30	28
52	2010-03-31	21
54	2009-09-30	46
55	2009-06-30	27

In []: