In [15]:
```
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 [16]:
```
url=" https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue."
html_data=requests.get(url).text
```

In [17]:
```
beautiful_soup=BeautifulSoup(html_data,"html5lib")
```

In [18]:
```
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.R
    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_rangeslider_visible=True)
    fig.show()
```

In [19]:
```
tesla=yf.Ticker('TSLA')
```

In [20]:
```
tesla_data=tesla.history(period="max")
```

In [21]:
```
tesla_data.reset_index(inplace=True)
tesla_data.head()
```

Out[21]:

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2010-06-29 00:00:00-04:00	1.266667	1.666667	1.169333	1.592667	281494500	0.0	0.0
1	2010-06-30 00:00:00-04:00	1.719333	2.028000	1.553333	1.588667	257806500	0.0	0.0
2	2010-07-01 00:00:00-04:00	1.666667	1.728000	1.351333	1.464000	123282000	0.0	0.0
3	2010-07-02 00:00:00-04:00	1.533333	1.540000	1.247333	1.280000	77097000	0.0	0.0
4	2010-07-06 00:00:00-04:00	1.333333	1.333333	1.055333	1.074000	103003500	0.0	0.0

In [22]:

```
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()
```

```
C:\Users\karra\AppData\Local\Temp\ipykernel_8928\1694894764.py:12: FutureWarning: The frame.append method is deprecated and will be removed from pandas in a future version. Use pandas.concat instead.
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```

Out[22]:

	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 [23]:

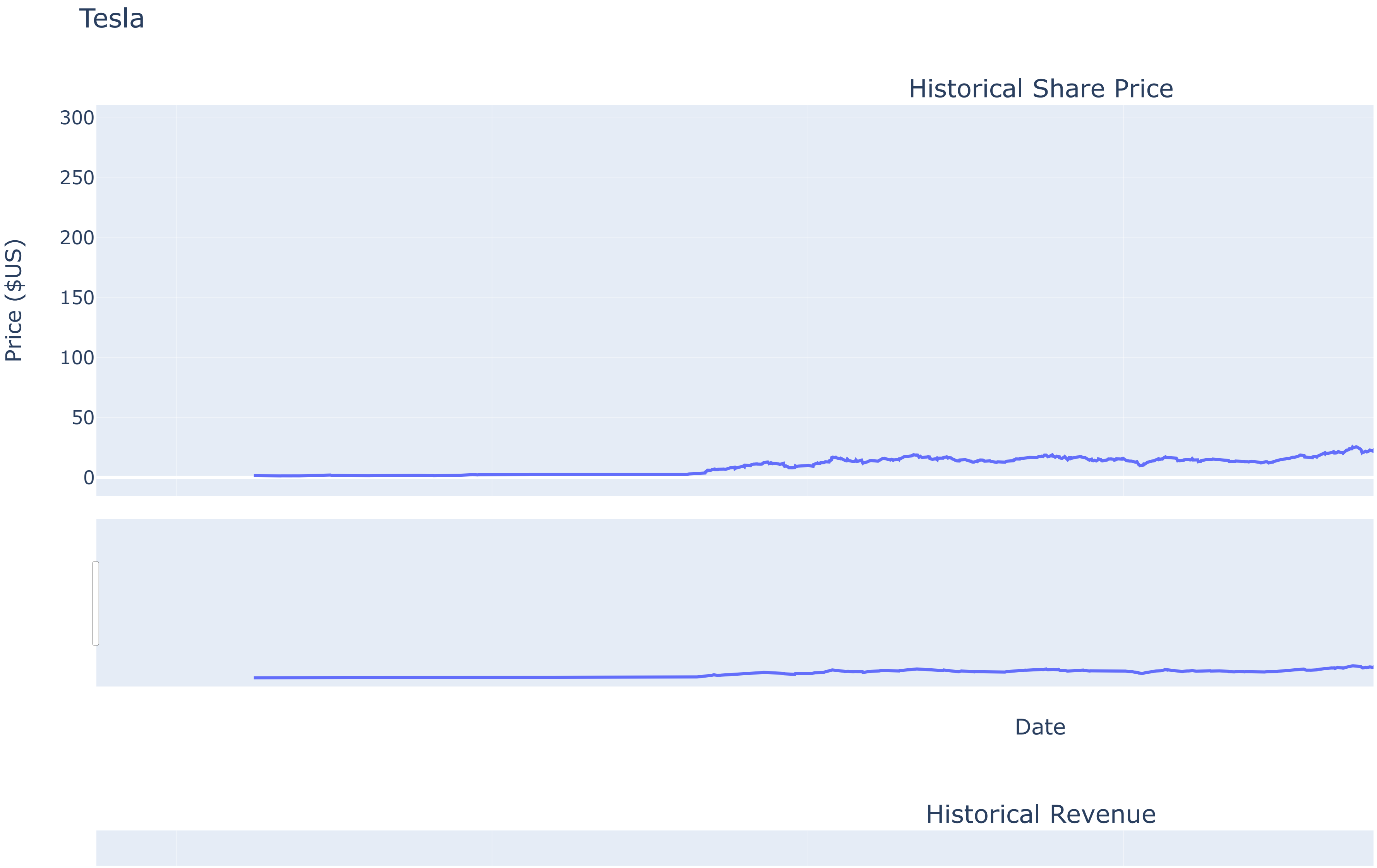
```
print(tesla_revenue)

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 [24]:

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


Tesla
Historical Share Price
Price ($US)
300
250
200
150
100
50
0
Date
Historical Revenue

In [ ]:

In [ ]: