```
In [3]:
          !pip install yfinance
          #!pip install pandas
          #!pip install requests
          !pip install bs4
          #!pip install plotly
         Requirement already satisfied: yfinance in c:\python\lib\site-packages (0.1.67)
         Requirement already satisfied: pandas>=0.24 in c:\python\lib\site-packages (from yfinance) (1.2.4)
         Requirement already satisfied: numpy>=1.15 in c:\python\lib\site-packages (from yfinance) (1.20.1)
         Requirement already satisfied: lxml>=4.5.1 in c:\python\lib\site-packages (from yfinance) (4.6.4)
         Requirement already satisfied: multitasking>=0.0.7 in c:\python\lib\site-packages (from yfinance) (0.0.10)
         Requirement already satisfied: requests>=2.20 in c:\python\lib\site-packages (from yfinance) (2.25.1)
         Requirement already satisfied: python-dateutil>=2.7.3 in c:\python\lib\site-packages (from pandas>=0.24->yfinance) (2.8.1)
         Requirement already satisfied: pytz>=2017.3 in c:\python\lib\site-packages (from pandas>=0.24->yfinance) (2021.1)
         Requirement already satisfied: six>=1.5 in c:\python\lib\site-packages (from python-dateutil>=2.7.3->pandas>=0.24->yfinance) (1.15.0)
         Requirement already satisfied: chardet<5,>=3.0.2 in c:\python\lib\site-packages (from requests>=2.20->yfinance) (4.0.0)
         Requirement already satisfied: certifi>=2017.4.17 in c:\python\lib\site-packages (from requests>=2.20->yfinance) (2020.12.5)
         Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\python\lib\site-packages (from requests>=2.20->yfinance) (1.26.4)
         Requirement already satisfied: idna<3,>=2.5 in c:\python\lib\site-packages (from requests>=2.20->yfinance) (2.10)
         Collecting bs4
           Downloading bs4-0.0.1.tar.gz (1.1 kB)
         Requirement already satisfied: beautifulsoup4 in c:\python\lib\site-packages (from bs4) (4.9.3)
         Requirement already satisfied: soupsieve>1.2 in c:\python\lib\site-packages (from beautifulsoup4->bs4) (2.2.1)
         Building wheels for collected packages: bs4
            Building wheel for bs4 (setup.py): started
            Building wheel for bs4 (setup.py): finished with status 'done'
            Created wheel for bs4: filename=bs4-0.0.1-py3-none-any.whl size=1273 sha256=bc181c4032ddb97fce3236edda45c55811380219b64a9735aec4d35a58
         ba6c0b
            Stored in directory: c: \users\anush\appdata\local\pip\cache\wheels\75\78\21\68b124549c9bdc94f822c02fb9aa3578a669843f9767776bca
         Successfully built bs4
         Installing collected packages: bs4
         Successfully installed bs4-0.0.1
 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]:
          tesla = yf.Ticker("TSLA")
 In [6]:
          tesla_data = tesla.history(period="max")
 In [7]:
          tesla_data.reset_index(inplace=True)
          tesla_data.head()
                                  Low Close
                                               Volume Dividends Stock Splits
Out[7]:
                 Date Open High
          0 2010-06-29 3.800 5.000
                                 3.508
                                       4.778 93831500
                                                             0
                                                                      0.0
         1 2010-06-30 5.158 6.084 4.660
                                       4.766 85935500
                                                             0
                                                                      0.0
          2 2010-07-01 5.000 5.184 4.054
                                       4.392 41094000
                                                             0
                                                                      0.0
         3 2010-07-02 4.600 4.620 3.742 3.840 25699000
                                                                      0.0
         4 2010-07-06 4.000 4.000 3.166 3.222 34334500
                                                             0
                                                                      0.0
 In [8]:
          url = "https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue"
          html_data = requests.get(url).text
 In [9]:
          soup = BeautifulSoup(html_data, 'html5lib')
In [10]:
          tesla_revenue=pd.read_html(url, match="Tesla Quarterly Revenue", flavor='bs4')[0]
          tesla_revenue.tail()
             Tesla Quarterly Revenue(Millions of US $) Tesla Quarterly Revenue(Millions of US $).1
Out[10]:
                                     2010-06-30
          48
                                                                             $21
                                     2010-03-31
          49
                                     2009-12-31
                                                                             NaN
          50
         51
                                     2009-09-30
                                                                             $46
          52
                                     2009-06-30
                                                                             $27
In [11]:
          game_stop = yf.Ticker("GME")
In [12]:
          gme_data = game_stop.history(period="max")
In [13]:
          gme_data.reset_index(inplace=True)
          gme_data.head()
                                                  Close
                 Date
                         Open
                                  High
                                                         Volume Dividends Stock Splits
Out[13]:
                                          Low
         0 2002-02-13 1.620128 1.693350 1.603296 1.691666
                                                       76216000
                                                                      0.0
                                                                                 0.0
         1 2002-02-14 1.712707 1.716073 1.670626 1.683250
                                                       11021600
                                                                      0.0
                                                                                 0.0
         2 2002-02-15 1.683251 1.687459 1.658002 1.674834
                                                         8389600
                                                                      0.0
                                                                                 0.0
         3 2002-02-19 1.666418 1.666418 1.578047 1.607504
                                                         7410400
                                                                      0.0
                                                                                 0.0
         4 2002-02-20 1.615920 1.662209 1.603296 1.662209
                                                         6892800
                                                                      0.0
                                                                                 0.0
In [14]:
          url = "https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue"
          html_data = requests.get(url).text
In [15]:
          soup = BeautifulSoup(html_data, 'html5lib')
In [16]:
          gme_revenue=pd.read_html(url, match="GameStop Quarterly Revenue", flavor='bs4')[0]
          gme_revenue.tail()
             GameStop Quarterly Revenue(Millions of US $) GameStop Quarterly Revenue(Millions of US $).1
Out[16]:
          49
                                         2010-01-31
                                                                                   $3,524
         50
                                         2009-10-31
                                                                                   $1,835
          51
                                         2009-07-31
                                                                                   $1,739
          52
                                         2009-04-30
                                                                                   $1,981
          53
                                         2009-01-31
                                                                                   $3,492
In [22]:
          import yfinance as yf
          import pandas as pd
          stock_data = yf.download("TSLA", start="2020-01-01", end="2021-09-30", progress=False)
          revenue_data = yf.download("TSLA", start="2020-01-01", end="2021-09-30", progress=False)
          stock_data.reset_index(inplace=True)
          revenue_data.reset_index(inplace=True)
          def make_graph(stock_data, revenue_data, stock):
               fig = make_subplots(rows=2, cols=1,
                                    shared_xaxes=True,
                                    subplot_titles=("Historical Share Price", "Historical Revenue"),
                                   vertical_spacing=.3)
               stock_data_specific = stock_data[stock_data.Date <= '2021-06-14']</pre>
               revenue_data_specific = revenue_data[revenue_data.Date <= '2021-04-30']</pre>
               fig.add_trace(go.Scatter(
                   x=pd.to_datetime(stock_data_specific.Date, infer_datetime_format=True),
                   y=stock_data_specific.Close.astype("float"), name="Share Price"), row=1, col=1)
              fig.add_trace(go.Scatter(x=pd.to_datetime(revenue_data_specific.Date, infer_datetime_format=True),
                                         y=revenue_data_specific.Volume.astype("float"),
                                         name="Volume"), row=2, col=1)
              fig.update_xaxes(title_text="Date", row=1, col=1)
               fig.update_xaxes(title_text="Date", row=2, col=1)
               fig.update_yaxes(title_text="Price ($US)", row=1, col=1)
               fig.update_yaxes(title_text="Revenue ($US Millions)", row=2, col=1)
              fig.update_layout(showlegend=False,
                                 height=900,
                                 title=stock,
                                 xaxis_rangeslider_visible=True)
              fig.show()
          make_graph(stock_data, revenue_data, 'TSLA')
                                                                                                                        TSLA
                                                                     Historical Share Price
                 800
                 600
            Price ($US)
                 400
                 200
                                                                             Date
                                                                      Historical Revenue
               300M
               250M
          Revenue ($US Millions)
               200M
               150M
               100M
                Jan 2020
                              Mar 2020
                                           May 2020
                                                         Jul 2020
                                                                       Sep 2020
                                                                                    Nov 2020
                                                                                                  Jan 2021
                                                                                                               Mar 2021
                                                                                                                             May 2021
                                                                             Date
In [33]:
          import yfinance as yf
          import pandas as pd
          stock_data = yf.download("GME", start="2020-01-01", end="2021-09-30", progress=False)
          revenue_data = yf.download("GME", start="2020-01-01", end="2021-09-30", progress=False)
          stock_data.reset_index(inplace=True)
          revenue_data.reset_index(inplace=True)
          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']</pre>
              revenue_data_specific = revenue_data[revenue_data.Date <= '2021-04-30']</pre>
              fig.add_trace(go.Scatter(
                   x=pd.to_datetime(stock_data_specific.Date, infer_datetime_format=True),
```



Sep 2020

Date

Jan 2021

Mar 2021

May 2021

Nov 2020

y=stock_data_specific.Close.astype("float"), name="Share Price"), row=1, col=1)

name="Volume"), row=2, col=1)

fig.update_xaxes(title_text="Date", row=1, col=1)
fig.update_xaxes(title_text="Date", row=2, col=1)

height=900, title=stock,

fig.update_layout(showlegend=False,

fig.update_yaxes(title_text="Price (\$US)", row=1, col=1)

fig.update_yaxes(title_text="Revenue (\$US Millions)", row=2, col=1)

xaxis_rangeslider_visible=True)

Jan 2020

Mar 2020

May 2020

Jul 2020