Tesla Stocks

!pip install yfinance==0.1.67

!mamba install bs4==4.10.0 -y

!pip install nbformat==4.2.0

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

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\_rangeslider\_visible=True)

fig.show()

tesla = yf.Ticker("TSLA")

tesla\_data = tesla.history(period="max")

tesla\_data.reset\_index(inplace=True)

tesla\_data.head()

!pip install pandas==1.3.3

!pip install requests==2.26.0

!mamba install bs4==4.10.0 -y

!mamba install html5lib==1.1 -y

!pip install lxml==4.6.4

!pip install plotly==5.3.1

import pandas as pd

import requests

from bs4 import BeautifulSoup

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

html\_data = requests.get(url).text

soup = BeautifulSoup(html\_data,'html.parser')

tesla\_revenue = pd.DataFrame(columns=["Date","Revenue"])

table = soup.find\_all("tbody")[1]

for row in table.find\_all("tr"):

col = row.find\_all("td")

date = col[0].text

revenue = col[1].text

tesla\_revenue = tesla\_revenue.append({"Date": date, "Revenue": revenue}, ignore\_index=True)

tesla\_revenue["Revenue"] = tesla\_revenue['Revenue'].str.replace(',|\$',"")

# to remove the comma and dollar signs

tesla\_revenue.dropna(inplace=True)

tesla\_revenue = tesla\_revenue[tesla\_revenue['Revenue'] != ""]

tesla\_revenue.tail()

make\_graph(tesla\_data, tesla\_revenue, 'Tesla')



GME Stocks

!pip install yfinance==0.1.67

!mamba install bs4==4.10.0 -y

!pip install nbformat==4.2.0

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

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\_rangeslider\_visible=True)

fig.show()

gme = yf.Ticker("GME")

gme\_data = gme.history(period="max")

gme\_data.reset\_index(inplace=True)

gme\_data.head()

!pip install pandas==1.3.3

!pip install requests==2.26.0

!mamba install bs4==4.10.0 -y

!mamba install html5lib==1.1 -y

!pip install lxml==4.6.4

#!pip install plotly==5.3.1

import pandas as pd

import requests

from bs4 import BeautifulSoup

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

html\_data = requests.get(url).text

soup = BeautifulSoup(html\_data, 'html.parser')

gme\_revenue= pd.DataFrame(columns=["Date", "Revenue"])

#table = soup.find\_all("tbody")[1]

for row in soup.find\_all("tbody")[1].find\_all("tr"):

col = row.find\_all("td")

date = col[0].text

revenue = col[1].text

gme\_revenue = gme\_revenue.append({"Date":date, "Revenue":revenue}, ignore\_index=True)

gme\_revenue["Revenue"] = gme\_revenue['Revenue'].str.replace(',|\$',"")

# to remove the comma and dollar signs

gme\_revenue.dropna(inplace=True) # to remove an null or empty strings

gme\_revenue = gme\_revenue[gme\_revenue['Revenue'] != ""]

gme\_revenue.tail()

make\_graph(gme\_data, gme\_revenue, 'GameStop')

