6 2021-09-30 13757

7 2021-06-30 8 2021-03-31 10389 9 2020-12-31 10744 10 2020-09-30 8771 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 18 2018-09-30 6824 19 2018-06-30 4002 20 2018-03-31 3409 21 2017-12-31 22 2017-09-30 2985 23 2017-06-30 2790 24 2017-03-31 25 2016-12-31 2285 26 2016-09-30 2298 27 2016-06-30 28 2016-03-31 1147 29 2015-12-31 1214 30 2015-09-30 **31** 2015-06-30 940 32 2015-03-31 33 2014-12-31 **34** 2014-09-30 852 35 2014-06-30 769 **36** 2014-03-31 **37** 2013-12-31 38 2013-09-30 431 **39** 2013-06-30 405 40 2013-03-31 562 41 2012-12-31 306 42 2012-09-30 43 2012-06-30 44 2012-03-31 30 45 2011-12-31 46 2011-09-30 47 2011-06-30 48 2011-03-31 50 2010-09-30 31 51 2010-06-30 53 2009-12-31 54 2009-09-30 46 55 2009-06-30 In [10]: tesla_revenue = tesla_revenue[tesla_revenue['Revenue'].astype(bool)] In [11]: tesla_revenue.tail() 50 2010-09-30 **51** 2010-06-30 **52** 2010-03-31 21 54 2009-09-30 55 2009-06-30 27 Question 3: Use yfinance to Extract Stock Data In [12]: gme = yf.Ticker('GME') In [13]: gme_data = gme.history(period='max') In [14]: gme_data.reset_index(inplace=True)
gme_data.head() Out[14]: Date Open High 0 2002-02-13 00:00:00-05:00 1.620128 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 1.683250 11021600 0.0 0.0 **2** 2002-02-15 00:00:00-05:00 1.683250 1.687458 1.658001 1.674834 8389600 0.0 0.0 3 2002-02-19 00:00:00-05:00 1.666417 1.666417 1.578047 1.607504 7410400 4 2002-02-20 00:00:00-05:00 1.615921 1.662210 1.603296 1.662210 6892800 0.0 0.0 Question 4: Use Webscraping to Extract GME Revenue Data In [15]: url = 'https://www.macrotrends.net/
html_data = requests.get(url).text macrotrends.net/stocks/charts/GME/gamestop/revenue' In [16]: soup = BeautifulSoup(html_data, "html5lib") In [17]: gme_revenue = pd.DataFrame(columns=['Date', 'Revenue']) for table in soup.find_all('table'): if ('GameStop Quarterly Revenue' in table.find('th').text):
 rows = table.find_all('tr') for row in rows:
 col = row.find_all('td') if col != []:
 date = col[0].text
 revenue = col[1].text.replace(',','').replace('\$','') gme_revenue = gme_revenue.append({"Date":date, "Revenue":revenue}, ignore_index=True) gme_revenue = gme_revenue.append(f'Date':date, "Revenue':revenue); ignore_index=True)
/var/folders/bhy/coursdbwnckbgsc_nix90000gn/r/jpykernel_d566/326997550.py:15: YutureWarning: The frame.append m
ethod is deprecated and will be removed from pandas in a future version. Use pandas_coneat instead.
gme_revenue = gme_revenue.append(f'Date':date, "Revenue':revenue'; ignore_index=True)
gme_revenue = gme_revenue.append(f'Date':date, "Revenue':revenue', ignore_index=True)

gme_revenue = gme_revenue.append(f'Date':date, "Revenue':revenue), ignore_index=True)
/var/folders/bhy/20xrdsbwnckp55v_nlx90000gm/r/jpykernel_d5666/326997550_py:15: YutureWarning: The frame.append m
ethod is deprecated and will be removed from pandas in a future version. Use pandas_coneat instead.
gme_revenue = gme_revenue.append(f'Date':date, "Revenue':revenue), ignore_index=True)
/var/folders/bhy/20xrdsbwnckp55v_nlx90000gm/r/jpykernel_d5666/326997550_py:15: YutureWarning: The frame.append m
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gme_revenue = gme_revenue.append(f'Date':date, "Revenue':revenue), ignore_index=True)
/var/folders/bhy/20xrdsbwnckbp55v_nlx90000gm/r/jpykernel_d5666/326997550_py:15: YutureWarning: The frame.append m
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gme_revenue = gme_revenue.append(f'Date':date, "Revenue':revenue), ignore_index=True)
/var/folders/bhy/20xrdsbwnckbp55v_nlx90000gm/r/jpykernel_d5666/326997550_py:15: YutureWarning: The frame.append m
ethod is deprecated and will be removed from pandas in a future version. Use pandas_coneat instead.

gme_revenue = gme_revenue.append(f'Date':date, "Revenue':revenue), ignore_index=True) In [18]: gme_revenue.tail()

Date Rev 53 2010-01-31 **54** 2009-10-31 **55** 2009-07-31 1739 56 2009-04-30 In [19]: def make_graph(stock_data, revenue_data, stock): fig = make_subplote(row=2, cols=1, shared_xaxes=True, subplot_titles=("Historical Share Price", "Historical Revent fig.adt_trace(go.Scatter(xxpd.to_datetine(stock_data.Date, infer_datetime_format=True), y=stock_data.Close.astype('fig.add_trace(go.Scatter(xxpd.to_datetime(revenue_data.Date, infer_datetime_format=True), y=revenue_data.Revenue.sr fig.update_xaxes(title_text="bate", row=1, col=1) fig.update_yaxes(title_text="bate", row=2, col=1) fig.update_yaxes(title_text="price(sUS)", row=1, col=1) fig.update_yaxes(title_text="price(sUS)", row=1, col=1) fig.update_yaxes(title_text="price(sUS)", row=2, col=1) fig.update_yaxes(title_text="price(sUS)", row=1, col=1) fig.update_yaxes(title_text="p Question 5: Plot Tesla Stock Graph In [20]: make_graph(tesla_data[['Date','Close']], tesla_revenue, 'Tesla') Historical Share Price Historical Revenue Revenue (\$US Millions) 2010 2012 **Question 6: Plot GameStop Stock Graph** In [21]: make_graph(gme_data[['Date','Close']], gme_revenue, 'GameStop') GameStop Historical Share Price Historical Revenue

In []: