

You passed!

Congratulations. You earned 12 / 12 points. Review the feedback below and continue the course when you are ready. You can also help more peers by reviewing their submissions.

Review assignments

Instructions

My submission

Discussions

Stock/Revenue Data and Building a Dashboard

Submitted on December 6, 2023

Shareable Link

PROMPT

Question 1: Use yfinance to Extract Stock Data

Reset the index, save, and display the first five rows of the `tesla_data` dataframe using the `head` function. Upload a screenshot of the results and code from the beginning of Question 1 to the results below.

`tesla_data`

Question 1: Use yfinance to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is Tesla and its ticker symbol is `TSLA`.

```
tesla = yf.Ticker("TSLA")
```

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `tesla_data`. Set the `period` parameter to `'max'` so we get information for the maximum amount of time.

```
tesla_data = tesla.history(period='max')
```

Reset the index using the `reset_index(inplace=True)` function on the `tesla_data` DataFrame and display the first five rows of the `tesla_data` using the `head` function.

```
tesla_data.reset_index(inplace=True)
tesla_data.head()
```

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2010-06-29	1.250007	1.666667	1.083333	1.582007	201494300	0	0.0
1	2010-06-30	1.719333	2.028000	1.533333	1.588667	257906300	0	0.0
2	2010-07-01	1.666667	1.728000	1.351133	1.464300	123382000	0	0.0
3	2010-07-02	1.533333	1.540000	1.247333	1.269000	77997900	0	0.0
4	2010-07-06	1.333333	1.333333	1.055333	1.074000	103005900	0	0.0

`tesla_data.reset_index(inplace=True)` `tesla_data.head(5)`

RUBRIC

Does the learner have the following solution?

Question 1: Use yfinance to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is Tesla and its ticker symbol is `TSLA`.

```
tesla = yf.Ticker("TSLA")
```

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `tesla_data`. Set the `period` parameter to `'max'` so we get information for the maximum amount of time.

```
tesla_data = tesla.history(period='max')
```

Reset the index, save, and display the first five rows of the `tesla_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 1 to the results below.

```
tesla_data.reset_index(inplace=True)
tesla_data.head()
```

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2010-06-29	1.250007	1.666667	1.083333	1.582007	201494300	0	0.0
1	2010-06-30	1.719333	2.028000	1.533333	1.588667	257906300	0	0.0
2	2010-07-01	1.666667	1.728000	1.351133	1.464300	123382000	0	0.0
3	2010-07-02	1.533333	1.540000	1.247333	1.269000	77997900	0	0.0
4	2010-07-06	1.333333	1.333333	1.055333	1.074000	103005900	0	0.0

TIP: If the screenshot appears small and is hard to read try zooming in by pressing the "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome)

0 points

The **High** of the first row is not 1.666667 and the **Ticker** and **history** function is not called with the proper parameters as shown in the solution above.

1 point

The **High** of the first row is 1.666667 but the **Ticker** and **history** function is not called with the proper parameters as shown in the solution above.

1 point

The **High** of the first row is not 1.666667 but the **Ticker** and **history** function is called with the proper parameters as shown in the solution above.

2 points

The **High** of the first row is 1.666667 and the **Ticker** and **history** function is called with the proper parameters as shown in the solution above.

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PROMPT

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https://www.coursera.org/learn/python-project-for-data-science/peer/WU7xb/analyzing-historical-stock-revenue-data-and-building-a-dashboard/su...

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## Question 2: Use Webscraping to Extract Tesla Revenue Data

Display the last five rows of the `tesla_revenue` dataframe using the `tail` function. Upload a screenshot of the results.

tesla\_revenue

```
1]: tesla_revenue["Revenue"] = tesla_revenue["Revenue"].str.replace(' ', '')
```

Execute the following lines to remove an null or empty strings in the Revenue

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

Display the last 5 row of the `tesla_revenue` dataframe using the `tail` function

```
3]: tesla_revenue.tail()
```

```
3]:
```

	Date	Revenue
48	2010-09-30	31
49	2010-06-30	28
50	2010-03-31	21
52	2009-09-30	46
53	2009-06-30	27

Does the learner have the following DataFrame?

	Date	Revenue
41	2010-09-30	31
42	2010-06-30	28
43	2010-03-31	21
45	2009-09-30	46
46	2009-06-30	27

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- ☐ 0 points  
No, the **Revenue** on the last row is not 27.
- ☒ 1 point  
Yes, the **Revenue** on the last row is 27.

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## PROMPT

## Question 3: Use yfinance to Extract Stock Data

Reset the index, save, and display the first five rows of the `gme_data` dataframe using the `head` function. Upload a screenshot of the results and code from the beginning of Question 1 to the results below.

gme\_data

```
16]: gme_data.reset_index(inplace=True)
gme_data.head()
```

```
16]:
```

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2002-02-13	1.620129	1.693350	1.603296	1.691667	76216000	0.0	0.0
1	2002-02-14	1.712707	1.716074	1.670626	1.683250	11021600	0.0	0.0
2	2002-02-15	1.683250	1.687458	1.658002	1.674854	8389600	0.0	0.0
3	2002-02-19	1.665418	1.666418	1.576047	1.607504	7410400	0.0	0.0
4	2002-02-20	1.619920	1.662210	1.603296	1.662210	6892800	0.0	0.0

## RUBRIC

Does the learner have the following solution?

## Question 3: Use yfinance to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is GameStop and its ticker symbol is `GME`.

```
gamestop = yf.Ticker("GME")
```

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `gme_data`. Set the `period` parameter to `max` so we get information for the maximum amount of time.

```
gme_data = gamestop.history(period="max")
```

Reset the index using the `reset_index(inplace=True)` function on the `gme_data` DataFrame and display the first five rows of the `gme_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 3 to the results below.

```
gme_data.reset_index(inplace=True)
gme_data.head()
```

```
0
```

Date	Open	High	Low	Close	Volume	Dividends	Stock Splits	
0	2002-02-13	1.620129	1.693350	1.603296	1.691667	76216000	0.0	0.0
1	2002-02-14	1.712707	1.716074	1.670626	1.683250	11021600	0.0	0.0
2	2002-02-15	1.683250	1.687458	1.658002	1.674854	8389600	0.0	0.0
3	2002-02-19	1.665418	1.666418	1.576047	1.607504	7410400	0.0	0.0
4	2002-02-20	1.619920	1.662210	1.603296	1.662210	6892800	0.0	0.0

- ☐ 0 points  
The **High** of the first row is not 1.693350 and the **Ticker** and **history** function is not called with the proper parameters as shown in the solution above.
- ☐ 1 point  
The **High** of the first row is 1.693350 but the **Ticker** and **history** function is not called with the proper parameters as shown in the solution above.
- ☐ 1 point  
The **High** of the first row is not 1.693350 but the **Ticker** and **history** function is called with the proper parameters as shown in the solution above.
- ☒ 2 points  
The **High** of the first row is 1.693350 and the **Ticker** and **history** function is called with the proper

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parameters as shown in the solution above.

## PROMPT

Question 4: Use Webscraping to Extract GME Revenue Data

Display the last five rows of the `gme_revenue` dataframe using the `tail` function. Upload a screenshot of the results.

gme\_revenue

```
[20]: gme_revenue.tail()
```

```
Out[20]:
```

	Date	Revenue
57	2006-01-31	1667
58	2005-10-31	534
59	2005-07-31	416
60	2005-04-30	475
61	2005-01-31	709

## RUBRIC

Does the learner have the following DataFrame?

	Date	Revenue
59	2006-01-31	1667
60	2005-10-31	534
61	2005-07-31	416
62	2005-04-30	475
63	2005-01-31	709

IBM

☐ 0 points  
No, the **Revenue** of the last row is not 709.

☒ 1 point  
Yes, the **Revenue of the last row is 709.**

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## PROMPT

Question 5: Plot Tesla Stock Graph

Use the `make_graph` function to graph the Tesla Stock Data, also provide a title for the graph.

Upload a screenshot of your results.

make\_graph

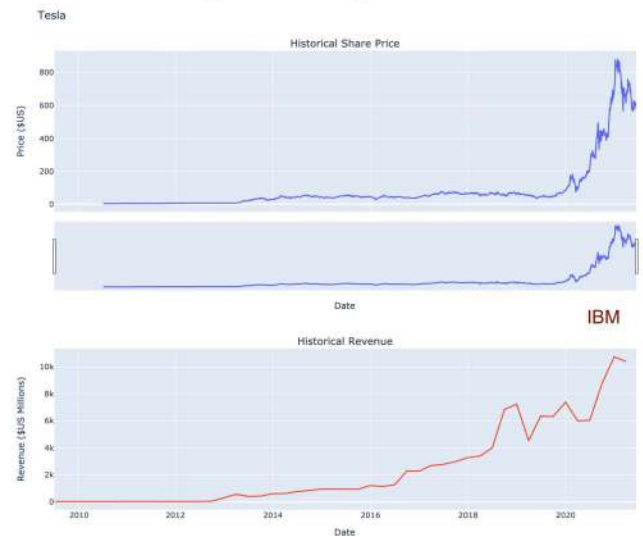
```
make_graph(symbol="TSLA", title="Tesla Stock Price")
```



## RUBRIC

Does the learner's dashboard look like the following image?

Please note that the learner's solution does not need to match the solution below exactly.



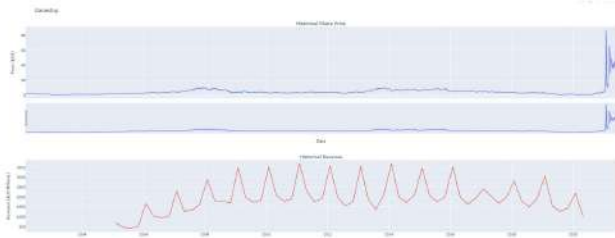
- ☐ 0 points  
No, there are no graphs or the graphs have no data in them.
- ☐ 1 point  
Yes, there are two graphs with a range slider in between populated with values but the data does not go back to at least 2012. The X-axis is the Date and the Y-axis is in US Dollar. The graph data DOES NOT need

**PROMPT**

Question 6: Plot GameStop Stock Graph

Use the `make_graph` function to graph the GameStop Stock Data, also provide a title for the graph.  
Upload a screenshot of your results.

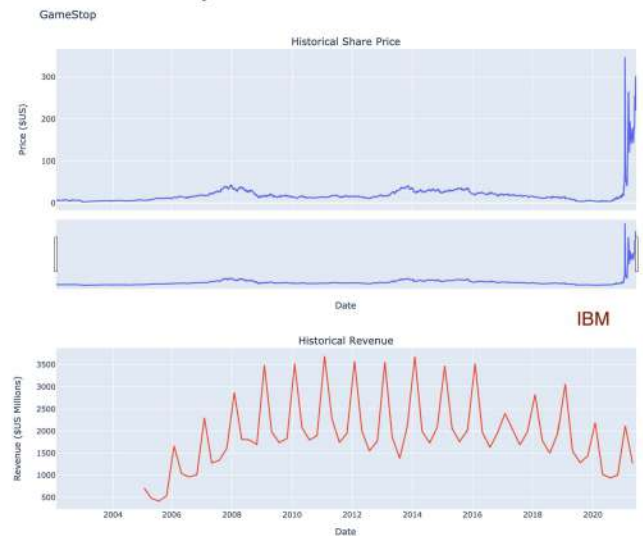
`make_graph2`

**RUBRIC**

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Does the learner's dashboard look like the following image?

Please note that the learner's solution does not need to match the solution below exactly.



- ☐ 0 points  
No, there are no graphs or the graphs have no data in them.
- ☐ 1 point  
Yes, there are two graphs with a range slider in between populated with values but the data does not go back to at least 2006. The X-axis is the Date and the Y-axis is in US Dollar. The graph data DOES NOT need to look exactly like the solution above

☒ 2 points

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Yes, there are two graphs with a range slider in between populated with values and the data does go back to at least 2006. The X-axis is the Date and the Y-axis is in US Dollar. The graph data DOES NOT need to look exactly like the solution above

**PROMPT**

Add the GitHub link or the URL to your assignment in Watson Studio using the share notebook lab instructions.

[https://github.com/AlessandroBenevelliRE/Analyzing-Historical-Stock-Revenue-Data\\_web scraping/blob/main/Final%20Assignment%20\(1\).ipynb](https://github.com/AlessandroBenevelliRE/Analyzing-Historical-Stock-Revenue-Data_web scraping/blob/main/Final%20Assignment%20(1).ipynb)

**RUBRIC**

Does the learner have a viable share link? Click the link and verify it leads to the correct assignment.

- ☐ 0 points  
There is no link.
- ☐ 1 point  
There is a link but it does not work or go to the correct assignment.
- ☒ 2 points  
There is a link and it goes to the correct assignment.

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