

Online Degrees and Postgradua... Coursera | Online Courses From... Hands-on Lab: Analyzing Hist... Skills Network Labs Inbox (2) - devikabylapudi228@... labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-dc14633cdced674ba99df0ef610cb50132a2e27c

File Edit View Run Kernel Git Tabs Settings Help

OPEN TABS Close All

WebScraping_Review_Lab.i... Final_Assignment Library.ip... Final Assignment Webscrapi... Final Assignment.ipynb

KERNELS Shut Down All

Final Assignment Webscrap... WebScraping_Review_Lab.i... Final_Assignment Library.ip... Final Assignment.ipynb

TERMINALS Shut Down All

WebScraping_Review_Lab.i... Final_Assignment Library.ip... Final Assignment Webscrapi... Final Assignment.ipynb

Markdown Run as Pipeline

Python

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`.

```
[69]: !pip install yfinance==0.2.4
      #!pip install pandas==1.3.3

import yfinance as yf
import pandas as pd

GameStop = yf.Ticker("GME")

Collecting yfinance==0.2.4
  Using cached yfinance==0.2.4-py2.py3-none-any.whl (51 kB)
Requirement already satisfied: pandas>=1.3.0 in /home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from yfinance==0.2.4) (1.3.5)
Requirement already satisfied: numpy>=1.16.5 in /home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from yfinance==0.2.4) (1.21.6)
Requirement already satisfied: requests>=2.26 in /home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from yfinance==0.2.4) (2.29.0)
Requirement already satisfied: multitasking>=0.0.7 in /home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from yfinance==0.2.4) (0.0.11)
Collecting lxml>=4.9.1 (from yfinance==0.2.4)
  Downloading lxml-5.2.2-cp37-cp37m-manylinux_2_28_x86_64.whl (5.0 MB)
    5.0/5.0 MB 29.8 MB/s eta 0:00:00:00:01:01
Requirement already satisfied: appdirs>=1.4.4 in /home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from yfinance==0.2.4) (1.4.4)
Requirement already satisfied: pytz>=2022.5 in /home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from yfinance==0.2.4) (2023.3)
Requirement already satisfied: frozendict>=2.3.4 in /home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from yfinance==0.2.4) (2.4.4)
Requirement already satisfied: cryptography>=3.3.2 in /home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from yfinance==0.2.4) (38.0.2)
Collecting beautifulsoup4>=4.11.1 (from yfinance==0.2.4)
  Downloading beautifulsoup4-4.12.3-py3-none-any.whl (147 kB)
```

Simple 0 4 Fully initialized Python | Idle Mem: 560.35 / 6144.00 MB Mode: Command Ln 1, Col 1 English (United States) Final Assignment.ipynb 1

Type here to search 16°C Cloudy 11:42 14/05/2024

Online Degrees and Postgraduate... Coursera | Online Courses From... Hands-on Lab: Analyzing Hist... Skills Network Labs Inbox (2) - devikabylapudi228@

labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-dc14633cdced674ba99df0ef610cb50132a2e27c

File Edit View Run Kernel Git Tabs Settings Help

OPEN TABS Close All

WebScraping_Review_Lab.i... Final_Assignment Library.ip... Final Assignment Webscrapi... Final Assignment.ipynb

KERNELS Shut Down All

Final Assignment Webscrapi... WebScraping_Review_Lab.i... Final_Assignment Library.ip... Final Assignment.ipynb

TERMINALS Shut Down All

WebScraping_Review_Lab.i... Final_Assignment Library.ip... Final Assignment Webscrapi... Final Assignment.ipynb

Markdown Run as Pipeline

Python

Successfully uninstalled yfinance-0.1.67
Successfully installed beautifulsoup4-4.12.3 lxml-5.2.2 yfinance-0.2.4

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.

[70]: `gme_data = GameStop.history(period="max")`
`gme_data.head()`

[70]:

	Open	High	Low	Close	Volume	Dividends	Stock Splits
Date							
2002-02-13	1.620129	1.693350	1.603296	1.691667	76216000	0.0	0.0
2002-02-14	1.712707	1.716074	1.670626	1.683250	11021600	0.0	0.0
2002-02-15	1.683250	1.687458	1.658002	1.674834	8389600	0.0	0.0
2002-02-19	1.666418	1.666418	1.578047	1.607504	7410400	0.0	0.0
2002-02-20	1.615920	1.662209	1.603296	1.662209	6892800	0.0	0.0

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.

[71]: `gme_data.reset_index(inplace=True)`
`gme_data.head(5)`

[71]:

	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	1.674834	8389600	0.0	0.0
3	2002-02-19	1.666418	1.666418	1.578047	1.607504	7410400	0.0	0.0

Simple 0 4 Fully initialized Python | Idle Mem: 560.35 / 6144.00 MB Mode: Command Ln 1, Col 1 English (United States) Final Assignment.ipynb 1

Type here to search

16°C Cloudy 11:43 14/05/2024

5 New Messages

Coursera | Online Courses From

Hands-on Lab: Analyzing Histor

Skills Network Labs

Inbox (2) - devikabylapudi228@

labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-dc14633cdced674ba99df0ef610cb50132a2e27c

File Edit View Run Kernel Git Tabs Settings Help

OPEN TABS

WebScraping_Review_Lab.i...

Final_Assignment Library.ip...

Final Assignment Webscrap...

Final Assignment.ipynb

KERNELS

Final Assignment Webscrap...

WebScraping_Review_Lab.i...

Final_Assignment Library.ip...

Final Assignment.ipynb

TERMINALS

Shut Down All

WebScraping_Review_Lab.i...

Final_Assignment Library.ip...

Final Assignment Webscrap...

Final Assignment.ipynb

Python

2002-02-15

1.683250

1.687458

1.658002

1.674834

8389600

0.0

0.0

2002-02-19

1.666418

1.666418

1.578047

1.607504

7410400

0.0

0.0

2002-02-20

1.615920

1.662209

1.603296

1.662209

6892800

0.0

0.0

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.

[71]:

gme_data.reset_index(inplace=True)

gme_data.head(5)

[71]:

	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	1.674834	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

Question 4: Use Webscraping to Extract GME Revenue Data

Use the requests library to download the webpage

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

Save the text of the response as a variable named html_data.

Simple

0

4

Fully initialized

Python | Idle

Mem: 560.35 / 6144.00 MB

Mode: Command

Ln 1, Col 1

English (United States)

Final Assignment.ipynb

1

Type here to search

16°C Cloudy

11:43

14/05/2024