

```
In [73]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
import re
import time
from datetime import datetime
import matplotlib.dates as mdates
import matplotlib.ticker as ticker
from urllib.request import urlopen
import requests
from bs4 import BeautifulSoup
```

```
In [74]: from selenium import webdriver
from selenium.webdriver.common.keys import Keys
import re
import os
```

```
In [75]: url= 'https://coinmarketcap.com/currencies/ethereum/historical-data/'
html = requests.get(url)
soup = BeautifulSoup(html.content, 'html.parser')
```

```
In [76]: table1= soup.find(class_='sc-16r8icm-0 elzRBB container')
```

```
In [77]: table1
```

```
Out[77]: <div class="sc-16r8icm-0 elzRBB container"><div style="display:initial"><div
style="width:100%;padding-bottom:450px;text-align:left">Loading...</div></div>
</div>
```

```
In [78]: driver= webdriver.Chrome(executable_path="C:/Users/egust/chromedriver.exe") #
Driver location on your computer
webdriver.remote.webelement.WebElement

url = 'https://coinmarketcap.com/currencies/ethereum/historical-data/' # websi
te to scrape
driver.get(url) # Scraping
time.sleep(5)
```

```
In [79]: table = driver.find_elements_by_xpath("//div[@class='sc-16r8icm-0 elzRBB conta
iner']")
```

```
In [80]: # Put the table text in a list  
table_text = table[0].text  
# Need to clean data  
table_hd = table_text.split('\n')  
table_hd
```

```

Out[80]: ['Historical Data for Ethereum',
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          'Date Open* High Low Close** Volume Market Cap',
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'Jul 03, 2020 $229.32 $229.63 $224.91 $225.39 $5,109,032,700 $25,155,571,60
0',
'Jul 02, 2020 $231.29 $232.40 $225.46 $229.39 $6,212,210,566 $25,599,453,47
7',
'Jul 01, 2020 $226.13 $232.76 $224.84 $231.11 $6,463,737,443 $25,788,404,35
0',
'Jun 30, 2020 $227.97 $229.48 $224.82 $226.31 $6,094,093,001 $25,249,913,73
0',
'Jun 29, 2020 $225.36 $229.90 $222.25 $228.19 $6,726,164,653 $25,456,513,99
4',
'Jun 28, 2020 $222.91 $228.60 $219.47 $225.35 $6,205,925,718 $25,135,786,98
6',
'Jun 27, 2020 $229.63 $232.49 $220.56 $222.96 $6,918,380,955 $24,866,429,44

```

```

5',
'Jun 26, 2020 $232.88 $233.90 $229.26 $229.67 $7,187,490,226 $25,611,500,29
7',
'Jun 25, 2020 $235.70 $236.05 $230.30 $232.94 $7,010,426,123 $25,973,707,94
6',
'Jun 24, 2020 $244.19 $248.51 $232.81 $235.77 $8,815,030,025 $26,285,822,23
9',
'Jun 23, 2020 $242.54 $244.86 $239.76 $244.14 $6,624,530,348 $27,215,606,54
3',
'Jun 22, 2020 $229.00 $243.78 $228.93 $242.53 $9,079,586,552 $27,032,930,74
3',
'Jun 21, 2020 $229.22 $232.36 $228.49 $228.99 $5,600,408,178 $25,520,273,83
7',
'Jun 20, 2020 $226.98 $231.45 $226.64 $229.27 $6,252,830,566 $25,548,837,12
1',
'Jun 19, 2020 $231.95 $232.15 $226.80 $227.14 $6,946,372,590 $25,307,718,81
9',
'Jun 18, 2020 $232.90 $234.57 $228.95 $232.10 $6,713,800,872 $25,857,495,15
5',
'Jun 17, 2020 $234.49 $235.95 $229.34 $233.03 $7,701,391,592 $25,957,610,76
4',
'Jun 16, 2020 $229.76 $236.39 $228.43 $234.42 $7,965,648,016 $26,109,047,39
2',
'Jun 15, 2020 $234.06 $234.24 $221.24 $229.93 $10,536,099,884 $25,606,145,74
3',
'Jun 14, 2020 $238.97 $239.10 $232.96 $234.11 $7,439,385,176 $26,069,111,85
7',
'Jun 13, 2020 $237.54 $239.19 $235.89 $238.91 $7,141,624,980 $26,599,679,55
0',
'Jun 12, 2020 $231.63 $239.35 $229.65 $237.49 $8,868,955,009 $26,438,827,42
0',
'Jun 11, 2020 $247.55 $249.89 $229.94 $231.70 $12,356,528,860 $25,791,024,83
1',
'Jun 10, 2020 $244.82 $248.65 $242.82 $247.44 $8,792,990,206 $27,539,945,41
3',
'Jun 09, 2020 $246.18 $248.34 $242.34 $244.91 $8,446,545,788 $27,254,678,25
5',
'Jun 08, 2020 $245.18 $246.64 $241.54 $246.31 $8,076,783,299 $27,406,923,22
6',
'Jun 07, 2020 $241.91 $245.44 $236.33 $245.17 $9,544,883,157 $27,276,459,50
2',
'Jun 06, 2020 $241.20 $245.98 $239.72 $241.93 $8,114,873,845 $26,913,140,92
5',
'Jun 05, 2020 $244.35 $247.33 $240.68 $241.22 $9,293,963,914 $26,830,954,61
4',
'Jun 04, 2020 $244.11 $245.93 $236.77 $244.43 $10,170,414,304 $27,184,018,61
2',
'Load More',
'* Earliest data in range (UTC time)',
'** Latest data in range (UTC time)']

```

In [99]: table_hd[366]

Out[99]: 'Jun 04, 2020 \$244.11 \$245.93 \$236.77 \$244.43 \$10,170,414,304 \$27,184,018,61
2'

```
In [81]: table_hd[2].split(' ')
```

```
Out[81]: ['Date', 'Open*', 'High', 'Low', 'Close**', 'Volume', 'Market', 'Cap']
```

```
In [82]: # Change Market Cap into Market_Cap to keep it from splitting  
table_hd[2] = table_hd[2].replace('Market Cap', 'Market_Cap')  
table_hd[2]
```

```
Out[82]: 'Date Open* High Low Close** Volume Market_Cap'
```

```
In [83]: table_hd[2].split(' ')
```

```
Out[83]: ['Date', 'Open*', 'High', 'Low', 'Close**', 'Volume', 'Market_Cap']
```

```
In [84]: table_hd[4]
```

```
Out[84]: 'Jun 01, 2021 $2,707.56 $2,739.74 $2,531.16 $2,633.52 $27,363,223,090 $305,79  
8,597,367'
```

```
In [85]: table_hd[4].split(' ')
```

```
Out[85]: ['Jun',  
          '01,',  
          '2021',  
          '$2,707.56',  
          '$2,739.74',  
          '$2,531.16',  
          '$2,633.52',  
          '$27,363,223,090',  
          '$305,798,597,367']
```

```
In [100]: table_hd_clean = [i.split(' ') for i in table_hd[3:366]]  
table_hd_clean[0]
```

```
Out[100]: ['Jun',  
          '02,',  
          '2021',  
          '$2,634.46',  
          '$2,801.39',  
          '$2,555.40',  
          '$2,706.12',  
          '$27,723,267,359',  
          '$314,266,256,163']
```

```
In [101]: table_hd_clean[0][0]+' '+table_hd_clean[0][1]+table_hd_clean[0][2]
```

```
Out[101]: 'Jun 02,2021'
```



```
In [102]: Date = []
Open = []
High = []
Low = []
Close = []
Volume = []
Market_Cap = []

for i in range(len(table_hd_clean)):
    Date.append(table_hd_clean[i][0]+' '+table_hd_clean[i][1]+table_hd_clean[i][2])
    Open.append(table_hd_clean[i][3])
    High.append(table_hd_clean[i][4])
    Low.append(table_hd_clean[i][5])
    Close.append(table_hd_clean[i][6])
    Volume.append(table_hd_clean[i][7])
    Market_Cap.append(table_hd_clean[i][8])
```

```
In [103]: data = {'date':Date, 'open':Open,
                  'high':High, 'low':Low,
                  'close':Close, 'volume':Volume,
                  'market_cap':Market_Cap}
```

```
In [104]: historical_data = pd.DataFrame(data)
historical_data
```

Out[104]:

	date	open	high	low	close	volume	market_cap
0	Jun 02,2021	\$2,634.46	\$2,801.39	\$2,555.40	\$2,706.12	\$27,723,267,359	\$314,266,256,163
1	Jun 01,2021	\$2,707.56	\$2,739.74	\$2,531.16	\$2,633.52	\$27,363,223,090	\$305,798,597,367
2	May 31,2021	\$2,387.20	\$2,715.86	\$2,279.51	\$2,714.95	\$31,007,383,150	\$315,217,277,483
3	May 30,2021	\$2,278.29	\$2,472.19	\$2,188.83	\$2,390.31	\$25,876,619,428	\$277,492,990,927
4	May 29,2021	\$2,414.07	\$2,566.94	\$2,208.49	\$2,279.51	\$33,773,720,220	\$264,600,384,052
...
358	Jun 09,2020	\$246.18	\$248.34	\$242.34	\$244.91	\$8,446,545,788	\$27,254,678,255
359	Jun 08,2020	\$245.18	\$246.64	\$241.54	\$246.31	\$8,076,783,299	\$27,406,923,226
360	Jun 07,2020	\$241.91	\$245.44	\$236.33	\$245.17	\$9,544,883,157	\$27,276,459,502
361	Jun 06,2020	\$241.20	\$245.98	\$239.72	\$241.93	\$8,114,873,845	\$26,913,140,925
362	Jun 05,2020	\$244.35	\$247.33	\$240.68	\$241.22	\$9,293,963,914	\$26,830,954,614

363 rows × 7 columns

```
In [105]: historical_data.date[0]
```

Out[105]: 'Jun 02,2021'

```
In [106]: # convert the 'Date' column to datetime format
from datetime import datetime
datetime.strptime(historical_data.date[0], '%b %d,%Y')
```

```
Out[106]: datetime.datetime(2021, 6, 2, 0, 0)
```

```
In [107]: for i in range(len(historical_data)):
            historical_data.date[i] = datetime.strptime(historical_data.date[i], '%b %d,%Y')
```

```
In [108]: # Convert the date column from string to datetime
historical_data.date = pd.to_datetime(historical_data.date).dt.date
```

```
In [109]: historical_data
```

```
Out[109]:
```

	date	open	high	low	close	volume	market_cap
0	2021-06-02	\$2,634.46	\$2,801.39	\$2,555.40	\$2,706.12	\$27,723,267,359	\$314,266,256,163
1	2021-06-01	\$2,707.56	\$2,739.74	\$2,531.16	\$2,633.52	\$27,363,223,090	\$305,798,597,367
2	2021-05-31	\$2,387.20	\$2,715.86	\$2,279.51	\$2,714.95	\$31,007,383,150	\$315,217,277,483
3	2021-05-30	\$2,278.29	\$2,472.19	\$2,188.83	\$2,390.31	\$25,876,619,428	\$277,492,990,927
4	2021-05-29	\$2,414.07	\$2,566.94	\$2,208.49	\$2,279.51	\$33,773,720,220	\$264,600,384,052
...
358	2020-06-09	\$246.18	\$248.34	\$242.34	\$244.91	\$8,446,545,788	\$27,254,678,255
359	2020-06-08	\$245.18	\$246.64	\$241.54	\$246.31	\$8,076,783,299	\$27,406,923,226
360	2020-06-07	\$241.91	\$245.44	\$236.33	\$245.17	\$9,544,883,157	\$27,276,459,502
361	2020-06-06	\$241.20	\$245.98	\$239.72	\$241.93	\$8,114,873,845	\$26,913,140,925
362	2020-06-05	\$244.35	\$247.33	\$240.68	\$241.22	\$9,293,963,914	\$26,830,954,614

363 rows × 7 columns

```
In [110]: historical_data.to_csv('historical_data.csv')
```

```
In [ ]:
```