

Lab 1

Task 2.1

```
• beckendrof@beckendrof-virtual-machine:~/Desktop/abhinav_6936475080/scripts$ ls
data_filter.py  processed_data  task_1
```

Task 2.2

```
• beckendrof@beckendrof-virtual-machine:~/Desktop/abhinav_6936475080/scripts$ python3 task_1.py
abhinav
Hello, abhinav!
```

Task 2.3

Ran the command “head -n 1 data/raw_data/web_data.html”

```
• beckendrof@beckendrof-virtual-machine:~/Desktop/abhinav_6936475080/scripts$ python3 web_scraper.py
HTML data saved to 'raw data/web data.html'
```

Task 2.4

Used BeautifulSoup4 and Selenium to load up the MarketCard data before extracting it.

```
• beckendrof@beckendrof-virtual-machine:~/Desktop/abhinav_6936475080/scripts$ python3 data_filter.py
Filtering fields...
Storing Market data in processed_data/market_data.csv
Storing News data in processed_data/news_data.csv
CSV files created.
```

news_data.csv

Timestamp,Title,Link

27 Min Ago,TSMC beats profit and revenue expectations in the fourth quarter,<https://www.cnbc.com/2024/01/18/tsmc-q4-2023-earnings-report.html>

51 Min Ago,European stocks head for mixed open as central bank officials at Davos temper rate cut expectations,<https://www.cnbc.com/2024/01/18/european-markets-live-updates-stocks-news-data-and-davos.html>

2 Hours Ago,Google CEO says more job cuts needed in 2024 in order to reach ‘ambitious goals’,<https://www.cnbc.com/2024/01/17/google-ceo-says-job-cuts-needed-in-2024-to-serve-ambitious-goals.html>

3 Hours Ago,"China could face more chip restrictions in 2024, analysts say",<https://www.cnbc.com/2024/01/18/china-could-face-more-chip-restrictions-in-2024-analysts-say.html>

4 Hours Ago,Apple will avoid ban by selling latest Apple Watches without blood oxygen feature,<https://www.cnbc.com/2024/01/17/apple-avoid-ban-by-selling-latest-watches-without-blood-oxygen-feature.html>

5 Hours Ago,Singapore transport minister S Iswaran resigns; faces charges of corruption,<https://www.cnbc.com/2024/01/18/singapore-transport-minister-s-iswaran-charged-with-corruption.html>

market_data.csv

Symbol,Stock Position,Changes Pct

DAX*,"16,431.69",UNCH

FTSE*,"7,446.29",-1.48%

CAC*,"7,318.69",UNCH

FTSE MIB*,"30,098.86",-0.79%

STOXX600*,467.71,UNCH