

#### DAY - 1

- Read the Documentation of yfinance and yahoo\_fin and started to figure out the metric
- After the end of the the got the code running for LTP and YTD. But faced error in retrieving financial statements using yahoo\_fin.
- Explored different APIs like Alpha vantage and twelve data but all in vain

#### DAY - 2

- Started to read through all the documentation and figure out the way around it without using financial data to code the metrics, for example
  - SP500 weight can be calculated by dividing the market cap of the company by the summation of the market cap of all the 500.
- Web scraping of short interest from Yahoo finance website.
- And still figuring out the error that can be resolved

#### DAY - 3

- Exporting the output to the .xlsx file
- Figuring out the mail automation but am only able to do it if the file is stored locally.
- Figuring the GUI.

P.S Trails.ipynb contains all the code snippets for the metrics i tried but couldn't rectify the errors

#### Additional things that can be implemented.

- GUI, which will show all the holding company names in three color codes red, yellow, and green. Red indicates a stock with red flags like high debt or short interest and vice versa.
- If the **short interest** crosses a threshold, it will flag the stock. An increase in short interest is a clear indicator of stock prices going down.
- Dividend yield. The high Dividend yield will act as a red flag, as it means the company is not reinvesting its profits.
- Debt/assets - 1 year annualized growth. High debt will act as a red flag, whereas negative annualized growth will be a green flag.
- Free cash flow: annualized growth percentage. Positive indicates the company's ability to grow more