

Stock Picker

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INTRODUCTION

Stock picker is a program designed to provide stock options from a predetermined list of some of the top performing stocks currently on the market. The prices of past five years to the current date are analyzed using machine learning to find the expected price next week, allowing the user to make informed choices on what to purchase and when to sell.

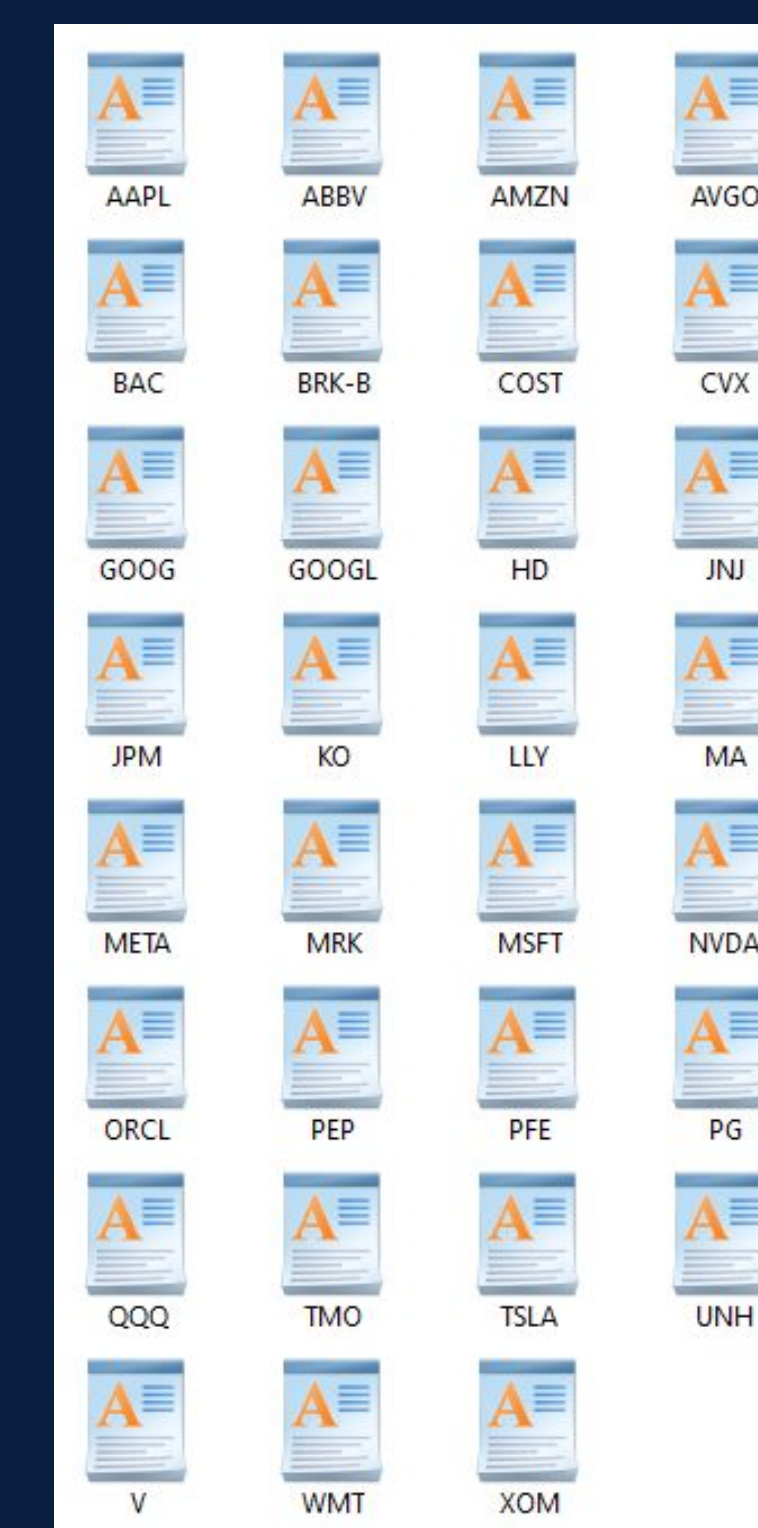
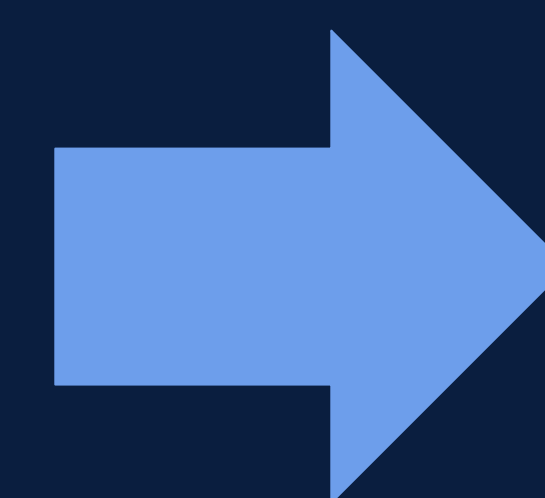
PROBLEM AND REQUIREMENTS

For the program to make its predictions accurate, up to date data must be collected. Nasdaq and Yahoo! Finance both allow for historical stock data to be downloaded from their sites, however Nasdaq's data is missing the current day and Yahoo's is only for the past month so both sets must be merged

- The program must download the CSV containing the historical stock data from both sites
- The program must then merge the CSV files into one

SUMMARY

1. The program scrapes the 5-year stock prices from Nasdaq and Yahoo! Finance in the form of a CSV file
2. The program then combines both CSV files to ensure the data is up to date
3. Because the code is written in a Jupyter notebook it does not need to always scrap data from both sites, only from Yahoo! so long as the CSV is only a month out of date



A visualisation of this section of the program, all the relevant data for many stocks are saved as CSV files