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The Best Stock Predictor Ever!

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Hypothesis/High-level Statement: If considerations in a dataset of stocks such as lowest value, lowest average value, highest value, percentage growth/decline per year, etc are calculated from this project, this will allow for investors to buy stocks and make a return based on the history of these stocks. Based on this data, we will be using different ML models to predict future returns.

Data Set: Our group will be using the data from Yahoo Finance, Bloomberg Website, or other third party data that is not from Kaggle.

Goals/Analysis: With the volatility of the stock market, this project attempts to use the amount of investors and how this has an influence on the individual stocks, while also calculating the impact of the entire market from past data. Using past data and statistical analysis not always, but sometimes shows us the possibilities of the future. Something specific that we could work on is stock analysis and creating a project that takes the input of a certain stock or index and based on analysis levels of lowest price or highest price or some other feature of statistical analysis over the years in order to see if the stock is a worthy investment. We are planning to do a project about the Stock Market from 2014 to the present day (Feb 2024). The sources that we are going to be using are from third parties and trusted websites such as yahoo

finance, and some other sources as well. We plan to use statistical analysis and Python in order to analyze the data.

Potential to calculate or return/plot (TBD): Average price of stock or fund per year, the average change per year, the percent growth from previous years, if the company is in the S&P 500, median, mode, range, how long the company has been around, how many investors if possible, price per share of a stock, if it is possible the based on the averages add the average to the future years. Something that this project will be doing is illustrating multiple plots of all of these things.

Work Distribution: Niam: 40% Coding, Adam: 30% Coding and 50% Writing Report, Tedjatta: 30% Coding and 50% Report.