Team E

Project 1

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FAANG Stock Correlations with Macro-Economic Trends

We wish to pull data on FAANG stocks along with Microsoft and NVIDIA to look for correlations between financial indicators (stock price, P/E ratio) and macro-economic trends such as inflation and interest rate changes. Our data will be pulled from the NASDAQ API and analyzed within the Jupyter Notebook and developed in Github. The NASDAQ API link is <https://data.nasdaq.com/tools/api>. The research is intended to answer questions as follows:

* How do interest rate changes from the Federal Reserve affect stock prices during 2022?
* How does the inflation rate correlate with stock prices during 2022?
* Does trading volume correlate to changes in interest rates in 2022?
* Which stocks appear to be the best investment insofar as performance?

The tasks required for this project are as follows:

* Capture data sets for each stock.
* Clean data sets and create DataFrames.
* Visualize data sets with scatter plots and linear regressions.
* Analyze correlations and provide insight on stock performance trends.