



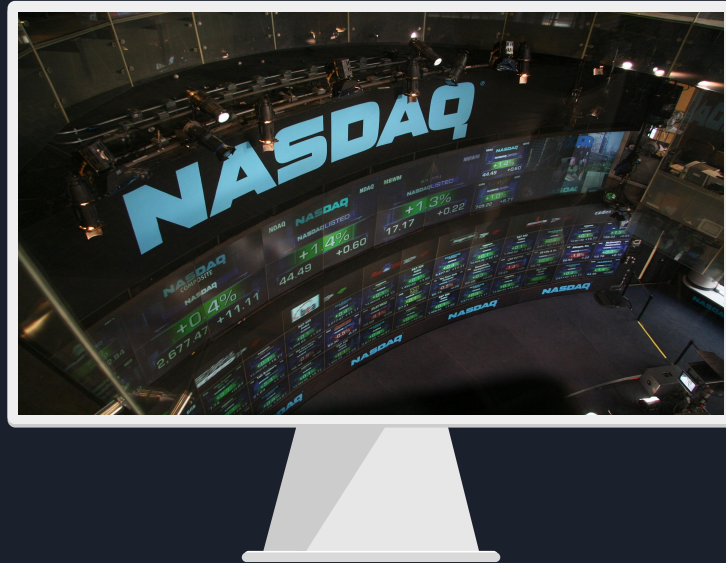
Error404 Stock Metrics

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Introduction: Stock Metrics

A cross platform web application with Desktop and Mobile support

A cloud-based stock analysis tool and watchlist for the stockholders to manage their stocks and keep a track of their portfolio profit/loss.





Overview: Stock Metrics

- Uses machine learning techniques to analyze existing metrics and tries to predict the future value of the stock.
- Fetched from a list of 8000 stocks across Nasdaq, NYSE exchanges and performs complex calculations on historical values like open, close, high, low and volume to forecast the next day price change.
- Works as a simple watch list and portfolio application to keep an eye on user's stocks and compare performances.



Challenges

- In the beginning couple of our team members had a hard time using Git/Github so it was kind of hard to manage changes made by different team members.
- Finding a stable finance API. Started working with Yahoo finance but later on we found out that their service was shut down.
- While working with forms we were able to save the stocks to the database but were not able to populate them on the portfolio page.

Eases

- Implementing the UI design with Bootstrap.
- Learning about using the version control system.
- Building applications with Django.
- Implementing the user authentication and authorization.



Interests:

- Working with Bootstrap and CSS for UI mockup.
- Knowing more about stocks and stock market.
- SVM (support vector machines) prediction algorithm for stocks.
- Using the Google Finance API to access the data about stocks.



Future Requirements

Anticipated Features:

- iOS/Android App
- Cryptocurrency Market
- Buy/sell stocks (exchange trading platform)
- Make the UI more interactive for the user
- Improve the web security



How it works (Demo):

- New users are required to create an account through the sign-up page. Once they have been successfully registered in the database, they will be able to sign in. Inside their account, they will be able to view their portfolio in the homepage which shows their portfolio value, funds available, net profit/loss and a list of their stocks.
- On the portfolio page, the user will be able to search for stocks and look at the market with high, low, open and close prices.
- Stock Metrics page allows the user to look at a stock's different stock metric indicators like RSI (Relative Strength Index), AI (Aroon Indicator), SMA (Simple Moving Average) and OBV (On-balance Volume).
- The order page allows the user to add/order stocks to their portfolio.



Thank you!

