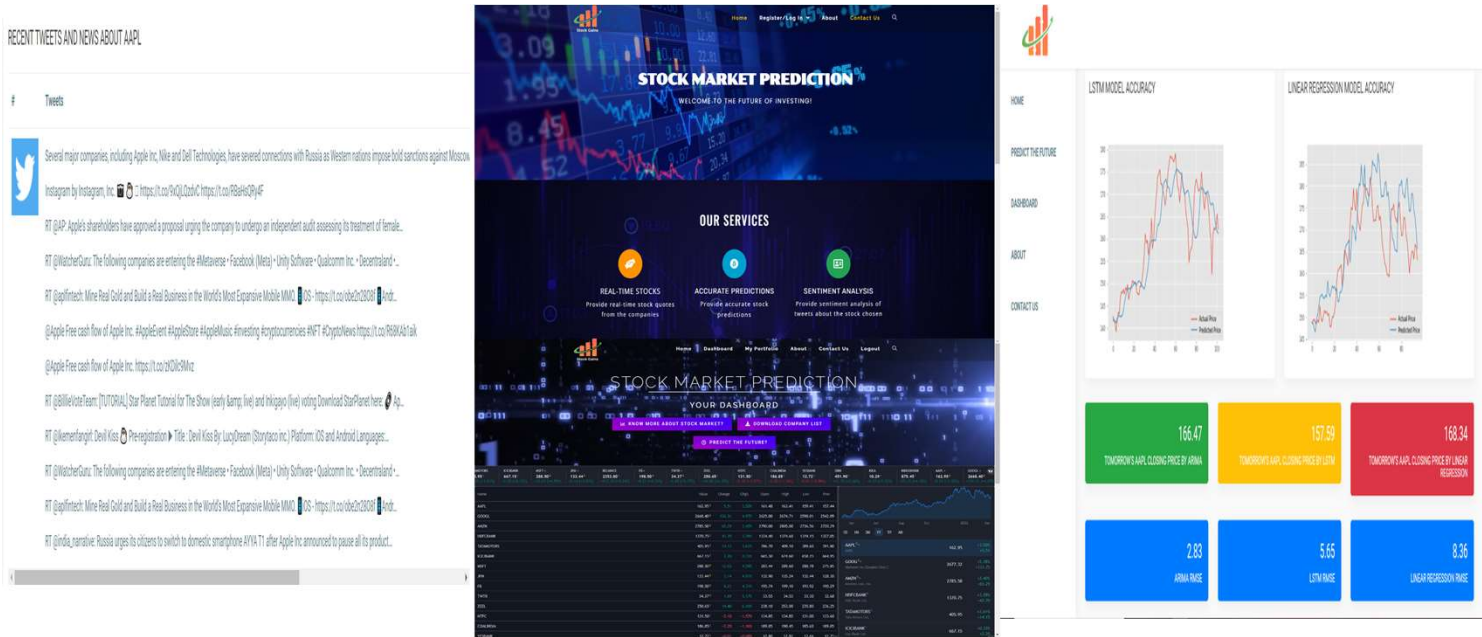


Web application for Asset Wealth Management

Using Machine Learning for stock price prediction and sentiment analysis

Student: Vaish Arjun

Supervisor: Dr W. K. Ng



Project Objectives:

The main goal of this project is to create a web application titled as “StockGains” to empower the user with knowledge about stocks and provide them a platform by which they can make informed decisions. This application makes use of machine learning models to predict the closing price of the stock and the sentiment analysis models to find public sentiment behind the company whose stock is being searched for. The output of both sentiment analysis and machine learning is used to provide a recommendation about a particular stock. The motivation behind this project is to not only help the people with advanced knowledge about the stock market reaffirm their decisions, but also enable to provide a platform for beginners to enter the stock market. The user can create an account with “StockGains” in order to buy stocks and create their portfolio based on the recommendations provided.

Main Features of the Application:

- Create an account
- View stock prices in real time
- Filter stocks based on
 - Technical indicators
 - Financial indicators
- Predict stock prices in the coming week
- Purchase stocks
- Manage Portfolio

Final Recommendation Model

