**1.Project Title**: Stock Market Analysis and prediction

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**2.Goals and Objectives:**

• **Motivation:** There are two ways of predicting stock market – fundamental analysis and technical analysis. So, we would like to combine the power of fundamental and technical analysis to analyze stock market data.

• **Significance:** As many investment companies and individuals today are very much active in stock market, they perform regular research by following news, studying the company trends and others before making any investment.

Building models by training it with past and current data is useful to investors and traders to have a proper understanding of the market fluctuation helping them to make better decisions for trading and investment.

• **Objectives:** The main objective is to improve stock market analysis using sentiment analysis, logistic regression, and Neural Networks.

• **Features:** Given a stock market ticker we analyze the financial documents of the given company and will also predict the stock prices and visualize the prices over time.

• **Dataset:** Historical stock market data of a specific company.

Example: Yahoo finance dataset

3**.References**

[1] M. Xu, "NLP for Stock Market Prediction with Reddit Data," [Online]. Available: https://web.stanford.edu/class/cs224n/reports/final\_reports/report030.pdf.

[2] Y. Aktar, "Using NLP and Deep Learning to Predict Stock Price Movements," June 2018. [Online]. Available: https://medium.com/@yiaktan/using-nlp-and-deep-learning-to-predict-the-stock-market-64eb9229e102.

4. **GitHub Link:**

<https://github.com/sowrab-sahini/SMAP/tree/main/documentation>