**Project Summary**

CSN 302: Software Engineering

**Project Title**: Stock Price Predictor

**Introduction:**

Stock Market prediction and analysis is the act of trying to determine the future value of a company stock or other financial instrument traded on an exchange. Stock market is the important part of economy of the country and plays a vital role in the growth of the industry and commerce of the country that eventually affects the economy of the country. Both investors and industry are involved in stock market and wants to know whether some stock will rise or fall over certain period of time. It is based on the concept of demand and supply. If the demand for a company's stock is higher, then the company share price increases and if the demand for company's stock is low then the company share price decrease.

Investing in a good stock but at a bad time can have disastrous result, while investing in a stock at the right time can bear profits. Financial investors of today are facing this problem of trading as they do not properly understand as to which stocks to buy or which stocks to sell in order to get optimum result. So, the proposed project will reduce the problem with suitable accuracy faced in such real time scenario.

**Activities:**

1. Finding Dataset of various stocks.

2. Preparing a ML Model to read data and predict future prices.

3. Developing the Web Front End.

4. Testing and finalizing.

**Features:**

1. It will be able to predict the value of stocks based on past data by using Machine Learning Algorithms

**Requirements:**

1. Data Set of various stock prices over a large period of time.

2. ML (For prediction)

3. Python (To implement ML algorithms and read data)

4. JAVA (For Web Development)

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