**STOCK PREDICTOR**

**Group 11**

Mentor Name-Dr. Padmavati

Ayush-18103076

Priyanka Chaudhary-18103095

Samridhi Mahajan-18103108

Harman Kaur Saini-18103128

**Motivation:**

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 to get optimum result. So, the proposed project will reduce the problem with suitable accuracy faced in such real time scenario.

**Objectives:**

The aims of this project are as follows:

* To identify factors affecting share market
* To generate the pattern from large set of data of stock market for prediction
* To predict an approximate value of share price.
* To provide analysis for users through web application

**Description:**

The project will be useful for investors to invest in stock market based on the various factors. The project target is to create web application that analyses previous stock data of companies and implement these values in data mining algorithm to determine the value that particular stock will have in near future with suitable accuracy. These predicted and analysed data can be observed by individual to know the financial status of companies and their comparisons. Company and industry can use it to breakdown their limitation and enhance their stock value. It can be very useful to even researchers, stockbrokers, market makers, government, and general people.

**Activities:**

1. Finding Dataset of various stocks.

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

3. Developing the Web Front End. The users will be required to select which company he/she is interested in among the various companies that have been provided.

4. Testing and finalizing.

**Features:**

1. It will be able to predict the value of long-term stocks based on historical data, growth, dividend, sales level etc by using Machine Learning and Deep Learning Algorithms.
2. It will be able to predict the value of short-term stocks based on highest and lowest value of the day etc. by using Machine Learning and Deep Learning Algorithms

**Requirements:**

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

2. ML and DL (For prediction)

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

4. JAVA (For Web Development)