

# Stock Market Prediction

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**Abstract**— Analysis of stocks using data mining will be useful for new investors to invest in stock market based on the various factors considered by the software.

Stock market includes daily activities like sensx calculation, exchange of shares. The exchange provides an efficient and transparent market for trading in equity, debt instruments and derivatives. Our software will be analyzing sensx based on company's stock value. The stock values of company depend on some of the following factors: 1> Dollar value: The fluctuations in the dollar value day by day will be playing crucial part in the stock values of companies (basically I.T based companies) The impact of dollar values will be different for different companies. 2> Corporate results: This will be regarding to the profits or progress of the company over a span of time say 3 months. 3> Inflation: The overall rise in price of all the products which affects purchasing power. The stock value depends on other factors as well, but we are taking into consideration only these particular factors.

**Key words:** Stock market ,sensx ,stock values

## I. INTRODUCTION

A speculator on a Stock Market, aside from having money to spare, needs at least one other to predict one such Market to a high degree of accuracy. To measure percentage accuracy, each individual test case prediction was compared with the actual market outcome, and thing — a means of producing accurate and understandable predictions ahead of others in the Market, so that a tactical and price advantage can be gained. This work demonstrates that it is possible total percentage accuracy for the whole test set was similarly calculated. Comparisons were also drawn with predictions for the same test cases using four types of Multiple Linear Regression. The results indicated that predictions based upon the lowest mean square error bear little relationship to the same test cases, when measured in terms of overall percentage accuracy.

## II. PREVIOUS WORK

In previous systems Maintaining the data of Stock Market manually is very difficult where we deal with huge amount of data and the data will be changing frequently depending upon the share market. Viewing of the required data is also a big problem and end-user will not get the clear idea about the flow of the system.

## III. PROPOSED METHODOLOGY

For the lay person, or a Stock-Market speculator, it was also shown that predictions can be produced to a high level of accuracy, in a readily understandable format. This application is totally integrated system with different sub systems like multi user Security, financial module integration. For now the software has the Organizer and Trader module. The organizer will hold all the master data that are required as part of the application. The Trader will involve uploading the daily Trade files received from NSE. All this trade information's are captured in the tables. The data from the master tables are displayed in different formats using reports as part of daily information to the clients who trade with the Stock brokers. Design and Development of Client, Organizer, Reports modules.

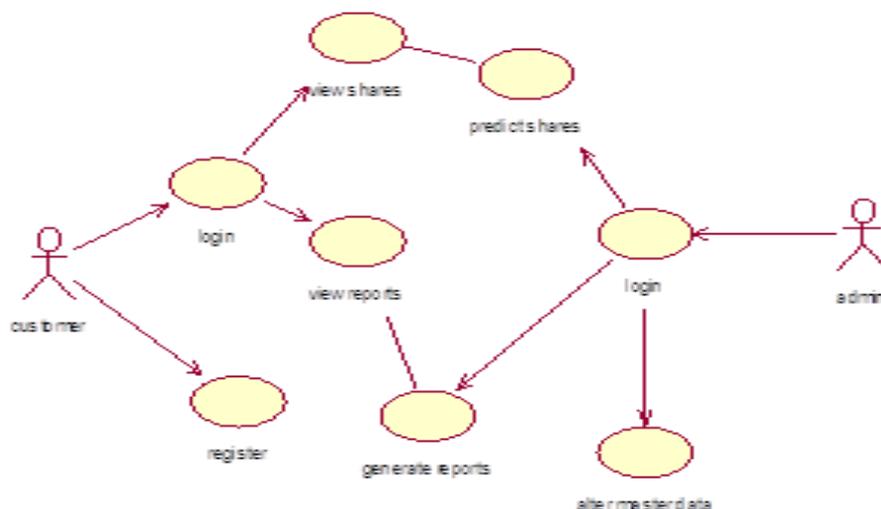


Fig. 3.1: Use Case diagram

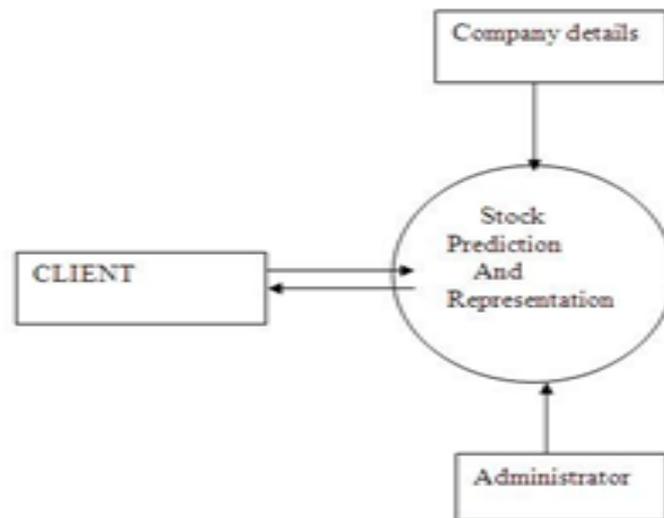


Fig. 3.2: Data Flow Diagram Level 0

#### IV. CONCLUSION

In All the users in the organization have appreciated the project. It is easy to use, since it uses the GUI provided in the user dialog. User-friendly screens are provided. The usage of software increases the efficiency, decreases the effort. It has ability to extract useful information from the data set so it is widely play very important role in stock market prediction. It is used to control and monitor the entire the stock market price behavior and Fluctuation. We propose a forecasting method provide better accuracy rather traditional methods.

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