**SYSTEM ANALYSIS**

**EXISTING SYSTEM:**

The stock market is the fuzzy environment full of many uncertain factors. The existence of these uncertain factors makes people face various risks when investing in securities. The stock market is a very complex system, which is affected by economic, policy and market factors.In existing system we are used Naïve Bayes algorithm for stock price prediction. The existing methods used were not able to address and not solve the complex problems in stock prices.

**DISADVANTAGES OF EXISTING SYSTEM:**

1. Using Naïve Byes algorithm we cannot predict exact stock price values.
2. It involves very lengthy and complicated procedure of calculations and analysis..
3. the Existing model is less accurate in predicting the stock prices.

**Algorithm: Naïve-Bayes**

**PROPOSED SYSTEM:**

In proposed system we are applying machine learning algorithms in various fields. Machine learning is predominantly being used in the forecasting of stock prices across stock markets due to the techniques it applies to generalize the patterns. This project applies six prominently used machine learning algorithms to predict BSE SENSEX closing prices.

**ADVANTAGES OF PROPOSED SYSTEM:**

* The machine learning and artificial intelligence tools are used to solve the complex situations and problems of Big Data with ease.
* the proposed model is more accurate in predicting the stock prices.

**Algorithm:** **Generalized Linear Model, Deep Learning, Decision Tree, Random Forest, Gradient Boosted Trees and Support Vector Machine**.

**SYSTEM REQUIREMENTS:**

**HARDWARE REQUIREMENTS:**

* System : Intel Core i6.
* Hard Disk : 500GB SSD.
* Monitor : 15’’ LED
* Input Devices : Keyboard, Mouse
* Ram : 32GB.

**SOFTWARE REQUIREMENTS:**

* Operating system : Windows 10.
* Coding Language : Python
* Tool : PyCharm, Visual Studio Code
* Database : SQLite

**REFERENCE:**

Sachin Rohatgi; Krishna Kumar Singh; Deepmala Jasuja" **Comparative Analysis of Machine Learning Algorithm to Forecast Indian Stock Market**" Proceedings of the International Conference on Artificial Intelligence and Smart Systems (ICAIS-2021) IEEE Xplore Part Number: CFP21OAB-ART; ISBN: 978-1-7281-9537-7AccessionNumber: 20632364DOI: 10.1109/ICACITE51222.2021.9404642.