Literature Survey On Stock Market Prediction

- Aishwarya Lakshmi A P - RA2011026020084
- Amruthaa S   - RA2011026020073
- Grace Hephzibah M   - RA2011026020084

Stock Market Prediction using Simple Linear Regression

Merits	Demerits
● The project forecasts the TCS datasets behaviour and the result is compared and evaluated against other approaches. ● incorporates techniques like analysing a large dataset; techniques to train the model and predict	● The prediction model was run on one stock set only and not on the entire market. This creates a certain degree of short sightedness on the entire evaluation process. ● The method of prediction using Linear Regression is comparatively less accurate, when compared to other methods.

Stock market Prediction using Artificial Neural Networks.

Merits	Demerits
● This project employs Sentiment Analysis of the social media platform which gives an accurate prediction or evaluation of human behavioural tendencies. ● The model has multifaceted use; in the stock market, finance, auditing, investment patterns and business strategies.	● This paper aims at developing an algorithm to predict stock values but does not talk about the accuracy of prediction. It gives a qualitative approach, not a quantitative one. ● It provides a semantic figure and not a visual outcome to analyse the prediction. No graphs are provided to demonstrate patterns in investment, in the market.

Stock Market Prediction using Sentiment Analysis: Hybrid Approach.

Merits	Demerits
- This model employs both sentiment analysis and clustering techniques to give a more accurate result. - This model can be extended to predict the degree of change. This may be achieved by predicting to which extent specific stock price will move, such as „very high", „little high", „little low", „very low".	- No visual representation of the prediction model is provided. - Does not implement regression. Only clustering techniques is used to predict stock values. - Does not provide a dynamic model for comparison or prediction, rather uses only fixed values. Hence, it"s applicability in the real world is questioned, without any valid evidence to prove otherwise

Stock Market Prediction Model using ANN and Back Propagation.

Merits	Demerits
- This prediction model uses artificial neural networks which gives an overall prediction rate of 63% and market direction accuracy of 81%, theoretically. - This paper uses back propagation algorithm for training the data which is not very commonly used. - This model gives extensive graphical output to visualize the result.	- Requires in-depth knowledge of deep learning and neural networks, to understand and implement. - As a vast difference in the empirical and actual accuracy as represented by the models.

Stock Market Prediction Using Long Short Term Memory.

Merits	Demerits
● The upgraded LSTM approach is more accurate than the regression-based models. ● Provides graphical data on predictions.	● Other emerging models of ML should also be tested for more accuracy of prediction. ● Sentiment analysis is required, since it is also an important factor in stock price fluctuation.

Stock Transaction Prediction Modelling and Analysis Based on LSTM.

Merits	Demerits
● This is the first model to solely use, Long Short-Term Memory (LSTM) as a prediction technique. ● This paper provides a good explanation of the LSTM model and how it is trained.	● The LSTM model requires a large number of layers. ● It is necessary for the LSTM network to be combined with existing clustering techniques.

Real-Time Stock Prediction using Neural Network.

Merits	Demerits
- This paper incorporates concepts in real time to calculate stock prices. - Uses a feed forward neural network.	- Requires in-depth knowledge about deep learning and neural networks. - The implementation of this model requires heavy computational power to execute.