**Stock Price Prediction using LSTM & ANN**

**Abstract**

The prediction of stock value is a complex task which needs a robust algorithm background in order to compute the longer term share prices. Stock prices are correlated within the nature of market; hence it will be difficult to predict the costs. The proposed algorithm using the market data to predict the share price using machine learning techniques like Artificial Neural Networks ,Long Short Term Memory, in that process weights are corrected for each data points using stochastic gradient descent. This system will provide accurate outcomes in comparison to currently available stock price predictor algorithms. The network is trained and evaluated with various sizes of input data to urge the graphical outcomes.

**Existing System**

The share market is a place where the shares of a public company are traded. As discussed in the volatile nature of the stock market makes it an area which needs an abundance of analysis with the old data predicated. The previous stock trend prediction algorithms use the historic time series stock data. the typical scientific stock price forecasting procedures are focused on the statistical analysis of stock data.

**Disadvantages**

1.Less accuracy.

**PROPOSED SYSTEM**

In this project we are using LSTM and ANN algorithms to predict stock prices and we trained both algorithm in different stock prices such as TATA, TESLA, Facebook, Apple etc. In both algorithm ANN is giving high accuracy and less Mean Square Error (MSE).We have experiment both algorithms on above mention different stock prices and both algorithm showing close and accurate prices of original test data. We have splitted dataset into train & test where application using 80% dataset size for training and 20% for testing

**Advantages**

* Less Accuracy

**SYSTEM REQUIREMENTS**

**HARDWARE REQUIREMENTS**:

Processor - Intel i3 or i4

Speed - 1.1 GHz

RAM - 4 GB (min)

Hard Disk - 500 GB (min)

Key Board - Standard Windows Keyboard

Mouse - Two or Three Button Mouse

Monitor - SVGA

**SOFTWARE REQUIREMENTS:**

Operating System - Windows 10 or above

Programming Language - Python