

## ABSTRACT

The stock market price prediction and classification is Stock market price prediction is a common problem in finance that involves using historical data to forecast future prices of stocks or other financial instruments. The goal of stock market price prediction is to identify profitable trading opportunities and make informed investment decisions, to resolve this issues different machine learning algorithm is implemented for predict the model accuracy of stock market price level. The problem statement for stock market price prediction involves identifying the factors that influence stock prices and developing a model to predict future prices based on historical data. Some of the factors that may influence stock prices include economic indicators, company financials, news and events, and market sentiment. LSTM (Long Short-Term Memory) is a type of recurrent neural network that is well-suited for time series prediction tasks, including stock market price prediction. Here's a step-by-step guide on how to build an LSTM model for stock market price prediction LSTM models can provide useful insights and predictions, they are not foolproof, and the stock market can be unpredictable and subject to sudden changes. Therefore, it is important to use a combination of different models and techniques, continually update the models with new data, and apply rigorous testing and validation methods to ensure the accuracy and reliability of the predictions.