**EVEREST ENGINEERING COLLEGE**

**(Affiliated to Pokhara University)**

**Sanepa-2, Lalitpur**



**[Subject Code: CMP 490]**

**A MAJOR PROJECT TITLE DEFENSE PROPOSAL ON**

**“STOCK PRICE PREDICTOR”**

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1. **INTRODUCTION**

The financial market is a dynamic and composite system where people can buy and sell currencies, stocks, derivatives over virtual platforms supported by brokers. The stock market allows investors to own shares of public companies through trading either by exchange or over the counter markets. This market has given investors the chance of gaining money and having a prosperous life through investing small initial amounts of money, low risk compared to the risk of opening new business or the need of high salary career. Stock markets are affected by many factors causing the uncertainty and high volatility in the market. Although humans can take orders and submit them to the market, automated trading systems (ATS) that are operated by the implementation of computer programs can perform better and with higher momentum in submitting orders than any human. Complex mathematical functions that reflect the state of a specific stock, machine learning algorithms that enable the prediction of the future stock value, and specific news related to the stock being analysed. It uses the continuous data in a period of time to predict the result in the next time unit. Many time series prediction algorithms have shown their effectiveness in practice. The most common algorithms now are based on Recurrent Neural Networks (RNN), as well as its special type - Long-short Term Memory (LSTM) Stock market is a typical area that presents time-series data and many researchers study on it and proposed various models. In this project, LSTM model is used to predict the stock price.

1. **Statement of work**
   1. **Aims**
   2. **Objectives**
2. **Expected output**