**EVEREST ENGINEERING COLLEGE**

**(Affiliated to Pokhara University)**

**Sanepa-2, Lalitpur**



**[Subject Code: CMP 490]**

**A**

**MAJOR PROJECT MID TERM DEFENSE REPORT ON**

**“STOCK PRICE PREDICTON”**

**Submitted by**

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**Submitted to**

**Department of Engineering**

**July, 2022**

**Section 1: Minor Changes in Project Objectives, Methodology or Evaluation**

1. We have decided to exclude sentimental analysis.
2. We have decided to compare different model for stock price prediction.

**Section 2: Annotated Bibliography**

|  |  |
| --- | --- |
| **S N** | **References/ Descriptions** |
| 1 | Y. E. Cakra and B. Distiawan Trisedya, "Stock price prediction using linear regression based on sentiment analysis," 2015 International Conference on Advanced Computer Science and Information Systems (ICACSIS), 2015, pp. 147-154 |
|  | This paper works In price fluctuation prediction, created models can predict whether the upcoming price will go up or down with highest accuracy of 67.37% for tweets data classified by Naïve Bayes and 66.34% for tweets data classified by Random Forest |
| 2 | Kumar, Manish, and M. Thenmozhi. (2006) “Forecasting stock index movement: A comparison of support vector machines and random forest “In Indian institute of capital markets 9th capital markets conference paper |
|  | This study used SVM and random forest to predict the daily movement of direction of S&P CNX NIFTY Index and compared the results with that of traditional discriminant and logit model and artificial techniques like neural network. The experimental results showed that SVM outperformed random forest, neural network and other traditional models used in this study |
| 3 | Selvin, Sreelekshmy, R. Vinayakumar, E. A. Gopalakrishnan, Vijay Krishna Menon, and K. P. Soman. (2017) “Stock price prediction using LSTM, RNN and CNN-sliding window mode.” International Conference on Advances in Computing, Communications and Informatics (ICACCI): 1643-1647. |
|  | In this work, Artificial Neural Network and Random Forest techniques have been utilized for predicting the next day closing price for five companies belonging to different sectors of operation. |
| 4 | Y. Zhu, “Stock price prediction using the RNN model,” *J. Phys. Conf. Ser.*, vol. 1650, p. 32103, Oct. 2020. |
|  | This paper proposes a deep learning technique to predict the stock market. Since RNN has the advantage of being able to process time series data, it is very suitable for forecasting stocks. |

**Section 3: Work Division**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task | Mr. Susil Kumar Shrestha | Mr. Rabin Kumar Mandel | Mr. Santosh Chapagain | Mr. Nabin Kumar Bamma |
| Research different algorithm | P | P | S | P |
| Dataset Preparation | S | S | P | S |
| Programming | S | S | P | P |
| Report Writing | P | P | S | S |

**Section 4: Project progress**

|  |  |  |  |
| --- | --- | --- | --- |
| Objective | Status | Completed (%) | Expected Completion Date |
| Research Paper Review | Four research paper have studied. | 80 | July 25, 2022 |
| Dataset Preparations | We have collect the dataset from Kaggle of Apple company. | 70 | July 10, 2022 |
| Stock Price Prediction using LSTM | We have predicted the price of stock of Apple company and accuracy improving on progress. | 65 | July 28, 2022 |
| Exponential Moving average | Done | 100 | N/A |

**Section 5: Supervisor’s Approval**

From my perspective, we, the student have done sufficient work to be allowed for the mid-term defence.

Supervisor’s Name: Er. Subhadra Joshi

Signature:

Date: