**VIT BHOPAL UNIVERSITY**

**SCHOOL OF COMPUTING SCIENCE AND ENGINEERING**

**DSN-2099 PROJECT EXHIBITION –I**

**WEEKLY REPORT**

**Title:** **INDEX PRICE PREDICTOR**

**Team Members:**

##### SAKSHAM MATHUR (21BCE10666)

##### AYUSH GUPTA (21BCE10360)

##### ANANYA MISHRA (21BCE10234)

##### IPSHITA DE(21BCE10899)

##### RITOJA DEY(21BCE10687)

**GUIDED BY: DR. SANDEEP SAHU**

**IInd YEAR BTECH (CSE), IIIrd SEMESTER**

**Batch: 2021-2025**

**ABSTRACT**

In this project we attempt to implement machine learning approach to predict index prices. Machine learning is effectively implemented in forecasting stock prices. The objective is to predict the index prices in order to make more informed and accurate investment decisions. We propose a index price prediction system that integrates mathematical functions, machine learning, and other external factors for the purpose of achieving better stock prediction accuracy and issuing profitable trades.

LSTMs are very powerful in sequence prediction problems because they’re able to store past information. This is important in our case because the previous price of index is crucial in predicting its future price. While predicting the actual price of index is an uphill climb, we can build a model that will predict whether the price will go up or down.

**WEEKLY REPORT**

**From:** **To:**

**Topic Discussion/Work Done:**

**Week 1:**

* Presentation of project idea and outcomes/application of the project. A sample homepage of the website and the architecture of the function of project discussed.

**Week 2:**

* Learning Web development (HTML, CSS, JS).
* Discussing the basic structure for our website.
* Gathering templates and taking references from other websites

**Week 3:**

* Collected resources for web development.
* Developed the sign up and log in form for our website.
* Designed the basic structure for the website.

**Week 4:**

* Completed more than 40% of the work as given in the presentation.

**Week 5:**

* Front end code done.
* Resolving bugs in the code and improving the UI of the website
* Added a better background theme.

**Week 6:**

* Linking the frontend code (login page) with some other page to check the functionality.
* Learning about python libraries used in machine learning.

**Week 7:**

* Fully functional log in page developed.
* Gathered the dataset for ML model training from Yahoo finance
* Learning about tensorflow, keras, numpy, pandas.

**Week 8:**

* Website code discussion done
* ML model predictions and working demonstration given

**Week 8:**

* Completion of project

**Work Proposed:**

Here,an attempt is made to predict the stock market trend using a culmination

of predictive modelling and regression algorithms.

The values of the data sets are plot on a chart and regression and clustering

techniques are applied to find out the increase or decrease in price of that

stock.

Based on the calculation, this model extrapolates the current stock prices to

generate a prediction after a given time

**Remark:**

**Guide Signature**

**REVIEW COMMENTS**

**Guide:**

**Co Guide:**

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