

# Stock Market Prediction

Submitted in partial fulfilment of the requirements

of the degree of

Bachelor of Engineering

by

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under the guidance of

**Mrs. Asha Bharambe**



Department of Information Technology

Vivekanand Education Society's Institute of Technology

2017-18



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### Department of Information Technology

#### CERTIFICATE

This is to certify that **Mr. Abhinav Valecha, Ms. Anjali Wani and Mr. Rajeevkumar Yadav** of Fourth Year Information Technology studying under the University of Mumbai have satisfactorily presented the project entitled **Stock Market Prediction** as a part of the PROJECT-II for Semester-VIII under the guidance of **Mrs. Asha Bharambe** in the year 2017-2018.

Date:

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Supervisor/Guide

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Head of Department

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Dr. J.M. Nair  
Principal



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#### **Project Report Approval for B. E.**

This project entitled **Stock Market Prediction** by **Mr. Abhinav Valecha, Ms. Anjali Wani** and **Mr. Rajeevkumar Yadav** is approved for the degree **Bachelor of Engineering** in **Information Technology**.

Examiners

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2 \_\_\_\_\_

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I declare that this written submission represents my ideas in my own words and where ideas have been included. I have adequately referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not been fabricated or falsified any idea/data/fact in my submission. I understand that any violation of the above will cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been cited or from who proper permission has not been taken when needed.

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### Abstract

In Indian Stock Market, Stock prices are considered to be very fluctuating because of the underlying nature of the financial domain. Along with the known parameters such as previous day's stock price, price to earning ratio, stock prices largely depend on some of the unknown factors such as election results, rumors, financial news etc.

The aim of this project is to predict the stock prices of some IT companies listed in NSE, BSE using the previous year dataset and data extracted from various news feeds, social media, experts blog etc. For this we will make use of different machine learning algorithms and artificial neural network to get the best prediction possible.

**Keywords:** Stock Market, Share price, ANN, Prediction, Time Series, ARIMA, CNN, LSTM.

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