# Mini Project Logbook

# Stock Price Prediction using ML


Group Members

Roll No: 31 Name: Rohit Karalkar

Roll No:45 Name: Pushkar Mavale

Roll No: 47 Name: Himanshu Mishra


Supervisor/Guide:

Name of Guide

Mrs. Asha Bharambe



**Department of Information Technology**

Vivekanand Education Society's Institute of Technology


Academic Year: 2021-2022

Since 1962

# Vivekanand Education Society's

## Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

## Department of Information Technology

**2021-2022**

# Student Information

**Group No**: 13

**Project Title**: Stock Price Prediction using Machine Learning

**Guide**: Mrs. Asha Bharambe

**Students Details**:

| | Member-1 | Member-2 | Member-3 |
|---|---|---|---|
| Roll No | 31 | 45 | 47 |
| Name | Rohit Karalkar | Pushkar Mavale | Himanshu Mishra |
| Class-Division | D15A | D15A | D15A |
| Contact | 9137772979 | 8369122153 | 9022176521 |
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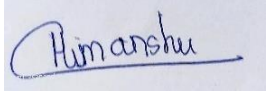
| Signature |  |  |  |

# Program Outcome

| |
|---|
| **PO1) Basic Engineering knowledge: An ability to apply the fundamental knowledge in mathematics, science and engineering to solve problems in Computer engineering.** |
| **PO2) Problem Analysis: Identify, formulate, research literature and analyse computer engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and computer engineering and sciences.** |
| **PO3) Design/ Development of Solutions: Design solutions for complex computer engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.** |
| **PO4) Conduct investigations of complex engineering problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.** |
| **PO5) Modern Tool Usage: Create, select and apply appropriate techniques, resources and modern computer engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.** |
| **PO6) The Engineer and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to computer engineering practice.** |
| **PO7) Environment and Sustainability: Understand the impact of professional computer engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.** |
| **PO8) Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of computer engineering practice.** |
| **PO9) Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.** |
| **PO10) Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.** |
| **PO11) Project Management and Finance: Demonstrate knowledge and understanding of computer engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.** |

| |
|---|
| **PO12) Life-long Learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.** |
| |
| **Program specific Outcomes** |
| |
| **PSO1) professional Skills - The ability to develop programs for computer-based systems of varying complexity and domains using standard practices.** |
| **PSO2) Successful Career – The ability to adopt skills, languages, environment and platforms for creating innovative carrier paths, being successful entrepreneurs or for pursuing higher studies.** |

# Course Outcomes

**Course Outcome:**

1. Identify problems based on societal /research needs.
2. Apply Knowledge and skill to solve societal problems in a group.
3. Develop interpersonal skills to work as a member of a group or leader.
4. Draw the proper inferences from available results through theoretical/ experimental/simulations.
5. Analyse the impact of solutions in societal and environmental context for sustainable development.
6. Use standard norms of engineering practices
7. Excel in written and oral communication.
8. Demonstrate capabilities of self-learning in a group, which leads to lifelong learning.
9. Demonstrate project management principles during project work.

**CO-PO Mapping**

| CO | PO/PSO | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** |
| CO1 | | 3 | | | | | | | | | | | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | | | | | | 3 | | 3 | 3 |
| CO3 | | | | | | | | | 3 | 3 | | 3 | | 3 |
| CO4 | | | | 2 | 3 | 3 | | | | | | | 3 | 3 |
| CO5 | | 2 | | | | | 3 | | | | | | 3 | 3 |
| CO6 | 3 | 3 | 3 | 3 | 3 | | | 2 | | | 2 | | 3 | 3 |
| CO7 | | | | | | | | | | 3 | | | | 3 |
| CO8 | | | | | | | | | 3 | | | 3 | | 3 |
| CO9 | | | | | | | | | | | 3 | | 3 | 3 |

# Proposed Schedule for Mini Project

| Week/ Date | Content | Time Required | Remark | Signature |
|---|---|---|---|---|
| 25-01-2022 | Discuss on the topic | 1 week | | |
| 02-02-2022 | Discussing the algorithm to use | 1 week | | |
| 09-02-2022 | Making the overall layout of the project | 5 days | | |
| 14-02-2022 | Select the dataset from yahoo finance for our Mini Project | 5 days | | |
| 21-02-2022 | To learn about implementation of an algorithm | 1 week | | |
| 28-02-2022 | To make Github repository and start working on project | 1 week | | |
| 05-03-2022 | To take an update on the task assigned to group members | 10 days | | |
| 15-03-2022 | To make suggestions on the work done by individuals | 7 days | | |
| 22-03-2022 | To finalize the project by solving bugs and error. | 4 days | | |

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**2021-2022**

# Mini-Project Progress Report

## Semester - 6

**Project Gr No 13**

**Title**: Stock Price Prediction Using Machine Learning

**Guide**: Mrs. Asha Bharambe

| Roll No | Name of Project Member |
|---|---|
| 31 | Rohit Karalkar |
| 45 | Pushkar Mavale |
| 47 | Himanshu Mishra |

| Week/ Date | Work Done | Students Present | Sign of Guide |
|---|---|---|---|
| 25-01-2022 | Each one of them got their individual ideas, on which we discussed and at the end we finalised stock prediction as our topic | Rohit Karalkar<br>Pushkar Mavale<br>Himanshu Mishra | |
| 02-02-2022 | Discussed which algorithm to be used. | Rohit Karalkar<br>Pushkar Mavale<br>Himanshu Mishra | |
| 09-02-2022 | Took a google meet and made an overall layout of the project | Rohit Karalkar<br>Pushkar Mavale<br>Himanshu Mishra | |
| 15-02-2022 | Selected the dataset to be used for the project | Rohit Karalkar<br>Pushkar Mavale<br>Himanshu Mishra | |
| 21-02-2022 | Learned about the implementation of LSTM model | Rohit Karalkar<br>Pushkar Mavale<br>Himanshu Mishra | |
| 09-03-2022 | Started creating and Updating Repositories on Github where all our group members were contributing to the Project. | Rohit Karalkar<br>Pushkar Mavale<br>Himanshu Mishra | |
| | | Rohit Karalkar | |

| | | | |
|---|---|---|---|
| 18-03-2022 | Google Meet was held where everyone showed their work done up to date. | Pushkar Mavale<br>Himanshu Mishra | |
| 24-03-2022 | Taking a note of suggestion made by the other members and made changes accordingly | Rohit Karalkar<br>Himanshu Mishra<br>Pushkar Mavale | |
| 01-04-2022 | Started Finalizing project by finding bugs and solving errors. | Rohit Karalkar<br>Pushkar Mavale<br>Himanshu Mishra | |