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SYNOPSIS

**ON**

Stock Price Prediction Using Machine Learning

***Submitted By: Submitted To***:

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# Title of the Project:

Stock Price Prediction Using Machine Learning

# Objective:

# The primary objective of this project is to Predict the stock price of a particular company. Stock Price changes everyday by market forces , this project aims to predict the price.

# Scope:

Our Focus will be on the technical analysis and the visualization part for achieving maximum efficiency in the prediction made by our model.

# Methodology:

The project will employ the following methodologies, tools, and technologies:

* Programming Languages: Python (for Backend Development), React (for FrontEnd Development)
* Software: Vs Code, Jupter Notebook, web development tools.

# Proposed System:

# Stock Price Predictor is a Web Application in which the application will show the historic trends in the stock prices (in the form of graph) and will predict the price

# at the end of the day ( the company name will be given by the user)

# Features:

* Responsive UI
* Data Visualization
* Highly Accurate Prediction

# Implementation Plan:

* Project Initiation and Requirements Analysis ( Days : 1 )
* UI/UX Design ( Days : 2-3 )
* Frontend Development :Days ( 4-6 )
* ML model Implementation Days ( 7-10 )
* Testing and Quality Assurance ( Day : 11)
* Project Completion and Deployment ( Day : 12 )

# Team Members:

* Ayush Mittal
* Hardik Gaur
* Vikas Kumar Singh

# Resources Required:

* Development computers with necessary software
* Market Stack API for Stock Price Data

# References:

* Market Stack API Documentation
* Python Documentation
* Numpy, Pandas, Scikit-Learn etc documentation

# Expected Outcomes:

# An user friendly system for retail investor who don’t have previous technical knowledge to navigate the machine learning model predictions result with useful benchmark.

# Project Supervisor:

# Mentor For the Project – Mr Anik Acharjee .

# Conclusion:

The Project lays the foundation for the democratizing machine learning technologies for the retail investors , connecting predictions made by machine learning model to retail investors.