VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belagavi-560014, Karnataka

A PROJECT REPORT ON

"STOCK MARKET PREDICTION WEBPAGE"

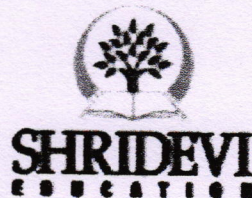*SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE*

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING

Submitted By

Arbin Taj (1SV19CS009)
Sahana B R (1SV19CS059)
Saniha C (1SV19CS062)

Under the guidance of

Mr. Guru Shankar H B B.E., M.Tech.,

Assistant Professor, Dept. of CSE.

SHRIDEVI
EDUCATION

PRINCIPAL
SIET. TUMKUR.

Department of Computer Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated To Visvesvaraya Technological University)
Sira Road, Tumakuru – 572 106, Karnataka.
2022-23

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, the project entitled "STOCK MARKET PREDICTION WEBPAGE" has been successfully carried out by Arbin Taj (1SV19CS009), Sahana B R (1SV19CS059), Saniha C (1SV19CS062) in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science & Engineering** of the **Visvesvaraya Technological University, Belagavi** during the academic year **2022-23.** It is certified that all the corrections/suggestions indicated for internal assessments have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

26/5/23

Signature of Guide
Mr. Guru Shankar H B B.E., M.Tech.,
Assistant Professor,
Dept. of CSE,
SIET, Tumakuru.

Signature of H.O.D
Dr. Basavesha D
Associate Professor & HOD
Dept. of CSE,
SIET, Tumakuru.

Signature of Principal

PRINCIPAL
SIET. TUMKUR.

Dr.Narendra Viswanath M.E., Ph.D., MIE, MISTE, MIWS., FIV.,
Principal,
SIET, Tumakuru

External Viva

Name of the Examiners

Signature with Date

1. Dr. Basavesha D   26/5/23

2. Wasim Uddin   26/5/23

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

We, Arbin Taj[1SV19CS009], Sahana B R [1SV19CS059], Saniha C [1SV19CS062] student of VIII semester **B.E** in Computer Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the project work-II entitled **"Stock Market Prediction Webpage"**, embodies the report of our project work carried out by our team under the guidance of **Mr. Guru Shankar H B, Assistant Professor, Department of CSE**, SIET, Tumakuru as partial fulfillment of requirements for the award of the degree in **Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi**, during the academic year **2022-23**. The project has been approved as it satisfies the academic requirements in respect to the Project work.

Place: Tumakuru

Date: 14/12/22

Saniha. C

Student Name & Signature

Arbin Taj [1SV19CS009]

Sahana B R [1SV19CS059]

Saniha C [1SV19CS062]

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Skill & Career Development Centre, Room No. 3, Ground Floor,
SIET Campus, Sira Road, Tumakuru - 572 106. Karnataka.

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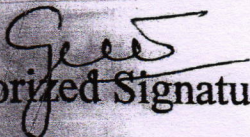: www.shritek.com
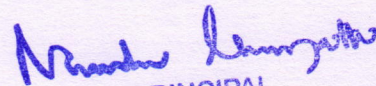: shritekinnovations@gmail.com
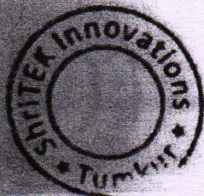
Date: 22/05/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. ARBIN TAJ** bearing USN **1SV19CS009** Student of **Shridevi Institute of Engineering & Technology** has successfully completed her Project Work titled "Stock Market Prediction Webpage".

We wish every success in her career.

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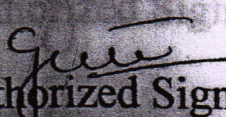Authorized Signature

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Date: 22/05/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. SAHANA B R** bearing USN **1SV19CS059** Student of **Shridevi Institute of Engineering & Technology** has successfully completed her Project Work titled "Stock Market Prediction Webpage".

We wish every success in her career.

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Date: 22/05/2023

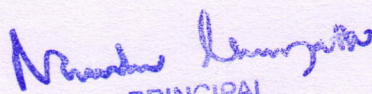## TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. SANIHA C** bearing USN **1SV19CS062** Student of **Shridevi Institute of Engineering & Technology** has successfully completed her Project Work titled "Stock Market Prediction Webpage".
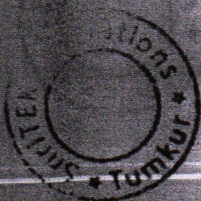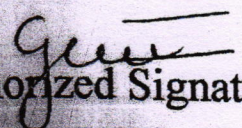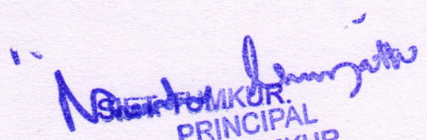
We wish every success in her career.

For ShriTEK Innovations

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ACKNOWLEDGEMENT

This project work will be incomplete without thanking the personalities responsible for this venture, which otherwise would not have become a reality.

We express our profound gratitude to **Dr.Narendra Viswanath,** Principal, S.I.E.T, for his moral support towards completing our project work.

We would like to thank Head of Department **Dr.Basavesha D.** Head, Department of CSE, SIET for providing all the support and facility.

We would like to thank my guide **Mr. Guru Shankar H B, Assistant Professor,** Department of computer Science and Engineering, SIET for his help, sharing his technical expertise and timely advice.

We whole heartedly thank, **Mr. Suthan R,** Assistant Professor, Project coordinator, Department of Computer Science and Engineering, for the support.

We would like to express our sincere gratitude to all teaching and non-teaching faculty of the department of CSE for guiding us throughout the course of this project by giving valuable suggestion and encouragement.

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By,

Arbin Taj [1SV19CS009]

Sahana B R [1SV19CS059]

Saniha C [1SV19CS062]

Abstract

Researchers have been studying different methods to effectively predict the stock market price. Useful prediction systems allow traders to get better insights about data such as: future trends. Also, investors have a major benefit since the analysis give future conditions of the market. One such method is to use machine learning algorithms for forecasting. This project's objective is to improve the quality of output of stock market predicted by using stock value. A number of researchers have come up with various ways to solve this problem, mainly there are traditional methods so far, such as artificial neural network is a way to get hidden patterns and classify the data which is used in predicting stock market. This project proposes a different method for prognosting stock market prices. It does not fit the data to a specific model; rather we are identifying the latent dynamics existing in the data using machine learning architectures. In this work we use Machine learning architectures Long Short-Term Memory (LSTM), Convolutional Neural Network (CNN) and Hybrid approach of LSTM + CNN for the price forecasting of NSE listed companies and differentiating their performance. On a long term basis, sling window approach has been applied and the performance was assessed by using root mean square error.

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