Mini Project Report

On

**“STOCK MARKET ANALYSIS USING DATA FRAMES”**

Submitted to

Jawaharlal Nehru Technological University

# Anantapur, Ananthapuramu

in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

INFORMATION TECHNOLOGY

Submitted by

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Department of Information Technology

# SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

(Affiliated to JNTUA, Ananthapuramu, Approved by AICTE, Accredited by NBA & NAAC) Sree Sainath Nagar, Tirupati – 517 102, A.P., INDIA

2023-2024

CERTIFICATE

This is to certify that the mini project report entitled

**STOCK MARKET ANALYSIS USING DATA FRAMES**

is the Bonafide work done by

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in the Department of **Information Technology**, and submitted to **Python for Data Science Lab** during the academic year 2023-2024. This work has been carried out under my supervision.

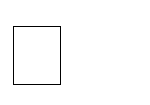
|  |  |
| --- | --- |
| Guide: | Head: |
| Ms. C Nithisha | Dr. K. Ramani |
| Assistant Professor | Professor & Head |
| Dept. of IT | Dept. of IT |
| **INTERNAL EXAMINER** | **EXTERNAL EXAMINER** |
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# Institute Vision and Mission

VISION

To be one of the Nation’s premier Engineering Colleges by achieving the highest order of excellence in Teaching and Research.

MISSION

* To foster intellectual curiosity, pursuit and dissemination of knowledge. To explore students’ potential through academic freedom and integrity.
* To promote technical mastery and nurture skilled professionals to face competition in ever increasing complex world.

DEPARTMENT OF INFORMATION TECHNOLOGY

## VISION

To become a nationally recognized quality education center in the domain of Computer Science and Information Technology through teaching, training, learning, research and consultancy.

## MISSION

* The Department offers undergraduate program in Information Technology to produce high quality information technologists and software engineers by disseminating knowledge through contemporary curriculum, competent faculty and adopting effective teaching-learning methodologies.
* Igniting passion among students for research and innovation by exposing them to real time systems and problems
* Developing technical and life skills in diverse community of students with modern training methods to solve problems in Software Industry.
* Inculcating values to practice engineering in adherence to code of ethics in multicultural and multi discipline teams.

## PROGRAM EDUCATIONAL OBJECTIVES

After few years of graduation, the graduates of B. Tech. (IT) Program will be:

1. Enrolled or completed higher education in the core or allied areas of Computer Science and Information Technology or management.
2. Successful entrepreneurial or technical career in the core or allied areas of Computer Science and Information Technology.
3. Continued to learn and to adapt to the world of constantly evolving technologies in the core or allied areas of Computer Science and Information Technology.

## PROGRAM OUTCOMES

On successful completion of the Program, the graduates of B. Tech. (IT) Program will be able to:

1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Use research-based knowledge and research methods including design of

experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

1. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
2. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

1. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
2. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
3. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
4. 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.
5. Demonstrate knowledge and understanding of the 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.

## PROGRAM SPECIFIC OUTCOMES

On successful completion of the program, the graduates of B.Tech. (IT) program will be able to:

PSO1: Design and develop database systems, apply data analytics techniques, and use advanced databases for data storage, processing and retrieval.

PSO2: Apply network security techniques and tools for the development of highly secure

systems.

PSO3: Analyze, design and develop efficient algorithms and software applications to deploy in secure environment to support contemporary services using programming languages, tools and technologies.

PSO4: Apply concepts of computer vision and artificial intelligent for the development of efficient intelligent systems and applications.