

VENKATA MANI KANTA REDDY TANGIRALA

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Education

NRI INSTITUTE OF TECHNOLOGY

B.Tech in CSE(AI&ML) | CGPA: 8.9

Nov. 2021 – Present

VIJAYAWADA

Experience

TechnoHacks

Jul 2023 – Aug 2023

Java Development Intern

- A Java-based application that allows users to securely encrypt and decrypt files using passwords. The tool uses encryption algorithms such as AES or DES to protect file contents, ensuring data confidentiality.
- This application ensures robust data protection while being simple to use.

HMI Engineering Services

Feb 2023– Jun 2023

Full Stack Using Java Intern

- Developed a robust login form validation system using Java Server page (JSP) for the front end, JDBC for database connectivity and MYSQL for backend databases.
- Ensures data integrity and enhances user experience through efficient validation and error handling.

Projects

Movie Recommendation System | Machine Learning

Ongoing

- This project focuses on developing a Movie Recommendation System that leverages Matrix Factorization and Collaborative Filtering techniques to deliver personalized movie suggestions.
- The system is built to scale efficiently, accommodating a growing number of users and movies. It is tested on large datasets like the TMDB 5000 dataset and utilizes Python libraries like NumPy, Pandas, and Scikit-learn for data preprocessing and model building.

Weather Forecasting Website | HTML, CSS, JavaScript, APIs

Jul 2024

- Built a website using an API key to fetch weather data, including current day forecasts with five different time slots and extended four-day forecasts with detailed information on weather conditions for each day.
- Ensured a seamless user experience by displaying accurate, real-time weather information in a user-friendly interface.

Quiz Application | Java Swings and AWT components

Dec 2023

- Developed an interactive Quiz application featuring a lifeline that reduces answer options from four to two, enhancing user engagement while ensuring a balanced challenge by adjusting the reward points accordingly.
- Implemented a dynamic timer for each question to increase urgency and improve gameplay flow.

Technical Skills

Programming Languages: Java, Python

Web Development: HTML, CSS, JavaScript

Technologies/Frameworks: Machine Learning

Databases: SQL, MongoDB

Developer Tools: VS Code, Eclipse, PyCharm

Core Concepts: Basics of Data Structures & Algorithms

Visualization Tool: Power BI

Leadership / Achievements

Team Lead

- Led a team of four members for minor and major academic projects, coordinating tasks, managing timelines, and ensuring successful project completion.
- Provided technical guidance and support to team members, fostering team collaboration and improving project outcomes.
- I secured a 2346 rank in the Common Internship Test conducted throughout India.

Certifications

- Power BI - Forage
- Cloud Computing – NPTEL
- Data Structures, Java, Python, and SQL – Great Learning
- TalentNext course on Java Full Stack - Wipro