

YESWANTH REDDY RACHAMALLA

Anantapur, Andhrapradesh

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EDUCATION

Vellore Institute of Technology

B.Tech - Computer Science and Engineering - **GPA - 8.6**

AUG 2021 – APR 2025

Chennai, Tamilnadu

COURSEWORK / SKILLS

- Data Structures and Algorithms
- Database Management System (DBMS)
- Operating Systems
- OOP Concepts
- Computer Networks
- Machine Learning

PROJECTS

Revolutionizing Tiger Detection [↗](#) | [Deep Learning](#)

2023-24

- Collaborated in a team of three to design and develop an **advanced Python-based model for accurate tiger detection** in both images and video footage.
- Engineered real-time video processing with **frame-by-frame analysis** to enhance safety measures for forest resident communities.
- Achieved over **96% accuracy in tiger identification**, showcasing the model's high reliability and effectiveness in real-world scenarios.

PDF-based Q&A using RAG | [LLMs](#), [LangChain](#), [ChromaDB](#)

JAN 2025 - APR 2025

- Collaborated in a team of three to develop a context-aware Q&A system from PDF documents using **LLaMA (Ollama)**, **LangChain**, and **ChromaDB**.
- Implemented a **Retrieval-Augmented Generation (RAG)** pipeline combining vector retrieval and local LLMs to enhance answer relevance.

Fertilizer Recommendation App | [Machine Learning](#)

JULY 2024

- Developed a fertilizer recommendation application utilizing **Python** and **Machine Learning** techniques.
- Provided users with tailored fertilizer recommendations by analyzing over 50,000 data points for improved agricultural outcomes.
- Achieved over 95% accuracy, ensuring highly precise recommendations for agriculture needs.

INTERNSHIP

IamNeo Edutech Private Limited

AUG 2023 – DEC 2023

Full Stack Intern

Remote

- Led the development of a Student Management System using a full-stack approach, utilizing **Angular** for the front-end and **Node.js** for the back-end.
- Developed and connected RESTful APIs with **MySQL** for smooth **data processing and storage**, resulting in a responsive and efficient web application.

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, HTML5, CSS3, JavaScript

Frameworks & Tools: Angular, Flask, LangChain, Node.js, MySQL, Git, Linux, VS Code, IntelliJ, Postman

ML/AI: TensorFlow, Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, Google Gemini API, **Prompt Engineering**.

Platforms: LeetCode, GeeksforGeeks, HackerRank

CERTIFICATIONS

- **Azure Cloud Administrator Associate (AZ-104)**
- **Azure Fundamentals AZ-900** - Microsoft
- **Software Engineer Intern Certificate** - HackerRank
- **The Joy of Computing using Python** - NPTEL

EXTRACURRICULAR ACTIVITIES

- Received the **Star of Indus Award** for consistently achieving top ranks in Class 10.