Aramati Tanush Reddy

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Education

Indian Institute of Information Technology, Sri City　　　　　　　　**2022 – 2026**
B.Tech in Computer Science & Engineering　　　　　　　　　　　　*CGPA: 7.6*

Experience

Freelance Work　　　　　　　　　　　　　　　　　　　　　　　**Oct 2025 – Present**
Backend Engineer　　　　　　　　　　　　　　　　　　　　　　　　　*Remote*

- Rental and roommate platform connecting **tenants**, **landlords**, and **flatmates** for verified property listings across major Indian cities.
- Built with **React.js**, **Node.js**, **Express**, **PostgreSQL**, and **Prisma ORM**, featuring **role-based access** and **JWT authentication**.
- Contributed to **backend APIs**, **admin routes** and **image upload integration** using **Multer** and **Amazon S3**.

Nacre Software Services Pvt. Ltd., Hyderabad　　　　　　　　**May 2025 – July 2025**
ML Intern　　　　　　　　　　　　　　　　　　　　　　　　　　　*Remote*

- Developed a complete **MLOps pipeline** to predict wine quality based on physicochemical properties using scikit-learn model on the Kaggle Wine Quality dataset with **1,600 samples.**
- Engineered a production-ready architecture using **Python, MLflow** for experiment tracking, **Flask** for model serving, and **Docker** for containerization.
- Implemented **MLflow tracking** with **DagsHub** for version control, experiment management, and model tracking.

Projects

NeuraNote – The Intelligent Note-Taking Platform ⚡　　　　　　*Oct 2025 – Nov 2025*

- Developed an AI-driven note-taking platform using **React.js**, **Node.js**, **MongoDB**, and **Tiptap rich-text editor** with **JWT authentication** and **role-based access control**.
- Integrated **LangChain** with **Gemini Flash LLM** for intelligent text generation and **voice-enabled note creation**.
- Utilized **Redis** for rate limiting, **Cloudinary** for **image storage**, and **Docker** for scalable deployment.
- **Tech Stack:** React, Tiptap, Node.js, Express, MongoDB, Redis, LangChain, Docker, Tailwind CSS, Cloudinary

TuteeTutor – ClassRoom Management Platform ⚡　　　　　　　　*Sep 2024 – May 2025*

- Developed a full-stack classroom management platform with **multi-role dashboards** (Student, Faculty, HOD, Admin) supporting assignments, schedules, attendance, and communication.
- Implemented secure **JWT-based authentication**, documented **REST APIs with Swagger**, and deployed the system using **Docker containers** for scalable and reliable deployment.
- **Tech Stack:** Node.js, Express, React, MUI, JWT, Docker, Swagger, Vercel

Research

ROBUST-VIBES: Robust System for Virtual Human Balance and Uprightness Evaluation

- Developed an AI-powered balance assessment system using **MediaPipe, OpenCV, Flask, and FFmpeg**, achieving **92.32% accuracy** across **30+ test subjects**.
- Designed **algorithms** to compute Center of Gravity (COG) and Base of Support (BOS) deviations for **real-time instability detection** and **fall analysis**.
- Built a scalable backend and **web interface** for real-time **video annotation** and **balance evaluation**.
- Presented at **AICSET'25** (*International Conference on AI & Cognitive Science for Emerging Technologies*) in **Marrakech, Morocco**.

Technical Skills

Languages: C++, Python, JavaScript, Java
Full-Stack Development: React JS, Node JS, Express JS, Tailwind CSS, Bootstrap, MUI, Docker,
Cloud & Databases: AWS, MySQL, MongoDB, Postgre SQL
Machine Learning Libraries : Numpy, Pandas, Matplotlib, Seaborn, scikit-learn
Developer Tools: Postman, VS Code, GitHub, Copilot, Jupyter Notebook
Core Subjects: DSA, OOPS, DBMS, OS, CA

Postions of Responsibility

PR Core Member – IOTA Club   **2024 – 2025**
IIIT Sri City, Chittoor
- Organized events like **Global Game Jam** sponsored by **Krafton**.

Domain Member – NexSync Club (Web Dev)   **2024 – 2025**
IIIT Sri City, Chittoor
- Conducted a **session on project initiation**, outlining **essential features**, providing **guidance to juniors**, and delivering the presentation to **over 25 students** on effective **project execution**.

Certifications & Achievements

- **Python 101 for Data Science** – Offered by IBM via CognitiveClass.ai.
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate.**
- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional.**
- **Solved more than 300+ DSA Problems in Leetcode.**