

Venkata Lakshmi Sai Rohith Juluru

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Education

B.Tech Computer Science with Spec in Artificial Intelligence and Machine Learning CGPA: 9.42
Vellore Institute of Technology, Amaravathi July 2021 - May 2025
Coursework: Object Oriented Programming, Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Machine Learning, Natural Language Processing

EXPERIENCE

Software Engineer Intern AUG 2024 – Jan 2025
Chatura Solutions LLP Hybrid

- Developed and deployed the company's **Website and Learning Management System (LMS)** using full-stack no-code tools (WordPress), incorporating scalable file storage architecture and secure data access protocols.
- Enhanced search and discovery by integrating **Google Analytics** and **SEO optimization**, leading to a **25% increase** in user engagement time and **5x improvement** in search accuracy.

PROJECTS

Content Management Platform CODE 365 – ReactJS, Supabase, IndexedDB, Vercel 🧑 1k+ Users

- Developed a comprehensive Learning Management System (LMS) website integrated with LLM capabilities and Supabase authentication.
- Enhanced website visibility through **Google Search Console**, generating 250 searches and 2.5K views in 3 months, and actively solicited user feedback via Reddit.
- Implemented a custom version control system to update question data from a unified entry point.

Brain Tumor Identification for Elderly Care using Grey Wolf Optimization Patented Project

- Designed an LSTM-based system achieving **98.5% accuracy** in classifying brain malignancies using MRI scan images.
- Built predictive models to detect health or behavioral anomalies in elderly individuals using daily routine and mobility data.
- **Technologies Used:** Python, Flask, TensorFlow, PyTorch

AI-Driven Optimization of 5G Resource Allocation for Network Efficiency

- Developed and deployed an ML-based system for 5G spectrum optimization, boosting network efficiency by **50%** and cutting downtime by **25%**.
- Implemented dynamic resource allocation and real-time traffic prediction for optimal bandwidth distribution.
- **Technologies:** Python, Flask

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL

Developer Tools: N8N, GitHub, Git, V0, WordPress, Docker, Jenkins, Weka, Postman API, MS Office

Frameworks: LangChain, Flask, TensorFlow, PyTorch, Scikit Learn

Soft Skills: Problem-Solving, Innovation, Team Leadership, Time Management, Adaptability, Public Speaking

ACHIEVEMENTS

- Presented research papers titled "*Brain Tumor Identification for Elderly Care using Grey Wolf Optimization on MRI Scan Images*" and "*Attention Mechanisms using U-Net for Precise Delineation of Breast Cancer Regions from Diagnostic Ultrasound*" at the **5th ICISML Conference** held at **NIT Meghalaya**.
- **President, GeeksForGeeks VIT-AP Student Chapter (2023–24)** – Led a team of 170 members; organized 29 events; collaborated with 12 companies; impacted 7000+ participants; achieved 30K+ LinkedIn impressions.
- **Coordinator, TEDx, VTAPP & VITOPIA 2024** – Spearheaded the organization of VIT-AP's All India Inter-Collegiate Cultural and Technical Fest, boosting engagement and cross-college participation.
- Featured in the **Hall of Fame** for outstanding contributions to open-source communities through programs like GSSOC, SWOC, and HacktoberFest 2023 & 2024.

CERTIFICATIONS

Google Cloud Digital Leader (Google Cloud), **Postman API Student Expert** (Postman), **Enterprise Design Thinking Practitioner** (IBM), **Machine Learning** (Stanford University Online)