Venkata Lakshmi Sai Rohith Juluru

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Education

B.Tech Computer Science and Engineering with Specialization in AI and ML   CGPA: 9.30
Vellore Institute of Technology, Amaravathi   *July 2021 - Present*
Coursework: Object Oriented Programming, Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Machine Learning, Natural Language Processing

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL
Developer Tools: GitHub, VS Code, V0, WordPress, Docker, Jenkins, Weka, Postman API ,MS Office
Frameworks: Flask,TensorFlow, PyTorch,Scikit Learn
Soft Skills: Problem-Solving, Innovation, Team Leadership, Time Management, Adaptability, Public Speaking

EXPERIENCE

Software Engineer Intern   Jul 2024 – Dec 2024
Chatura Solutions LLP   *Hybrid*
- Built and deployed the company's **Website and Learning Management System (LMS)** using full-stack no-code tools, incorporating scalable file storage architecture and secure data access protocols.
- Enhanced search and discovery by integrating **Google Analytics** and **SEO optimization**, leading to a **20% increase** in user engagement time and **5x improvement** in search accuracy.

PROJECTS

Content management Platform CODE 365 – ReactJS, LocalStorage, IndexedDB, Vercel   👤 10k+ Users
- Developed a comprehensive Learning Management System (LMS) website integrated with LLM capabilities and Supabase authentication.
- Enabled users to track achievements and progress on practice questions, fostering motivation for 100% course completion.
- Implemented a custom version control system to update question data from a unified entry point.

Predictive Behavioral Analysis and Brain Tumor Identification for Elderly Care   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

AI-Driven Optimization of 5G Resource Allocation for Network Efficiency
- Designed and implemented ML-based optimization on 5G Spectrum Dataset, increasing network efficiency by 50% and reducing downtime by 25%
- Utilized dynamic resource allocation and real-time traffic surge prediction to ensure optimal bandwidth distribution.

- **Technologies Used:** Python, Flask

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)