Venkata Lokesh Panthangi *AI & ML Engineer*

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EDUCATION

Vasireddy Venkatadri Institute of Technology   Nov 2021 – Apr 2025
B.Tech in Computer Science Engineering - Artificial Intelligence and Machine Learning   Guntur

PROFESSIONAL EXPERIENCE

Full Stack Developer at Brainovision   Jul 2024 – Jan 2025
Hyderabad
- Designed and implemented a Django application for real-time monitoring and management of 50+ pressure pumps across multiple locations, ensuring 89.8% system uptime and optimizing operational efficiency through self-initiated alerts and data analytics.
- Tracked and analyzed performance data from 50+ pumps, optimizing operational efficiency and reducing downtime by 18% through predictive maintenance algorithms.
- **Generated automated notifications and reporting** using **Django Channels**, reducing response times to critical issues by 30% and enhancing maintenance scheduling accuracy through real-time alerts and event-driven architecture.

SKILLS

Programming Languages — Python, Java, JavaScript, HTML, CSS, R Programming

Core CS — Data Structures and Algorithms, TCP/IP Networking, Computer Networks, Operating Systems (Linux/Unix, Windows)

Web Frameworks — Django, Streamlit, Flask(Basic Exposure)

Databases — MySQL, SQL,Familiarity with NoSQL databases (MongoDB)

Machine Learning & AI — Machine Learning, Deep Learning, Natural Language Processing, | Generative AI (GenAI) Tools

PROJECTS

Generative AI Projects using Llamaindex :   Jul 2024 – Oct 2024
- **Built and deployed AI models for NLP tasks**, utilizing **Llamaindex** for advanced text generation, achieving a 95% relevance rate in content outputs and significantly improving text coherence and contextual accuracy.
- Engineered web applications that integrated **advanced NLP models** for **real-time text generation** and sentiment analysis, resulting in a **30% enhancement** in user engagement through tailored responses and relevant content delivery.
- Created models using containerization **(Docker)** and orchestration tools **(Kubernetes)**, ensuring seamless scalability and reducing deployment time by 40%.

SpeakEazy: Nov 2023 – Apr 2024
Deep Learning, Mediapipe, TensorFlow, LSTM, OpenCV | Team Lead |
- Developed SpeakEazy, a **DL-powered system** to bridge the gap between deaf and mute' "**Analysis Paralysis**"by analyzing their actions and Body language using Deep Learning
- Implemented MediaPipe for **accurate body coordinate extraction**, enhancing feature precision by **20%**, and allowing for better movement tracking and pose detection in real-time application.
- Optimized model accuracy by testing multiple architectures, achieving **up to 90% performance** through iterative tuning and evaluation using the **cross-validation method**, ensuring robust and reliable predictions across diverse datasets.
- Integrated all features into Django, streamlining the project's structure and ensuring a cohesive user experience, while maintaining scalability and ease of future updates.

ACHIEVEMENTS

- Solved over *300+ LeetCode problems*, showcasing strong algorithmic and coding proficiency.
- Wrote an *Unofficial Expansion* for the game *RDR2,* adding innovative gameplay elements.
- Conducted a *Hackathon* in my branch, fostering innovation and collaboration among participants
- **Qualified GATE 2024** in First Attempt with AIR **15,202**.

CERTIFICATES

- Google Associate Cloud Engineer
- RPA developer by UiPath
- Deep Learning by IIT Ropar
- Salesforce Developer Certification by Trailhead