

VENKATA LOKESH PANTHANGI

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Education

MisogiAI By Masai - Bengaluru <i>AI Engineering</i>	Jun 2025 – Present
Vasireddy Venkatadri Institute of Technology - Guntur <i>B.Tech in Computer Science Engineering - Artificial Intelligence and Machine Learning</i>	Nov 2021 – Apr 2025

Technical Skills

Gen AI: AI Agents, n8n, LangChain, LangGraph, CrewAI

RAG: Traditional, Multimodal, Knowledge Graphs, Agentic RAG

LLM: Transformers, Fine-Tuning (Unsloth)

Machine Learning: Supervised, Unsupervised, Deep Learning

Core CS: Data Structures and Algorithms, TCP/IP Networking, Computer Networks, Operating Systems, OOP

Databases: MySQL, SQL, Redis, Familiarity with GraphDB

Development: Python, React, FastAPI, Pydantic, Streamlit, Docker, AWS

Projects

JumppApp <i>Python, FastAPI, Next.js (TypeScript), MongoDB, Gemini-2.0, LangChain</i>	Aug 2025
<ul style="list-style-type: none">Architected and Created scalable AI workflows using Python, LangChain, and Gemini-2.0, Integrated multilingual translation across 16+ languages, reducing average response latency to less than 2.5s for global users.Developed and deployed an AI-powered YouTube video-specific chatbot with interactive Q&A features that improved user engagement by 40% in pilot testing with 500+ active sessions.Integrated frontend and backend systems, resolving complex Git merge conflicts and optimizing performance across the FastAPI–Next.js pipeline.	

Drowsiness Classifier <i>Python, TensorFlow, Keras, Flask, SQLite, AWS Cloud</i>	Apr 2024
<ul style="list-style-type: none">Developed a real-time drowsiness detection system using Python, OpenCV, and MediaPipe with 4 vision algorithms achieving less than 100ms processing latency and 95% detection accuracy.Built a full-stack web application with Flask backend and MongoDB integration, supporting multi-user authentication and OTP verification with 99.5% delivery rate.Engineered computer vision pipeline combining YOLO object detection and 3D head tracking with calibrated thresholds (0.25 EAR, 0.42 MAR) reducing false positives by 80%.Implemented intelligent alert system with dual-mode notifications featuring 3-8 second adaptive response delays and real-time threshold adjustment based on user patterns.	

Experience

Full Stack Development Intern - BrainoVision <i>Hyderabad</i>	Jul 2024 – Dec 2024
<ul style="list-style-type: none">Designed and implemented a part of the Django application for real-time monitoring and management of 50+ pressure pumps across multiple locations and optimizing operational efficiency through self-initiated alerts and data analytics.Tracked and analyzed performance data from 50+ pumps, optimizing operational efficiency and reducing latency of the dashboard by 18% by modifying data retrieval algorithms.Generated automated notifications and reporting with Django Channels, cutting response times to critical issues by 30% and improving maintenance scheduling via an event-driven architecture.	

Achievements

- Solved over 200+ LeetCode problems, showcasing strong algorithmic and coding proficiency.
- Wrote an Unofficial Expansion for the game RDR2, adding innovative gameplay elements.
- Conducted a Hackathon in CSM branch, fostering innovation and collaboration among participants.