

Venkata Lokesh Panthangi

AI & ML Engineer

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EDUCATION

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

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

JumpApp:	Aug 2025 – Aug 2025
<i>Tools : Orchestrator, RAG System, Websearch, Deployment, LangChain</i>	
Tech Stack : Python, FastAPI, Next.js (TypeScript), MongoDB, Gemini-2.0	
<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 <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.	
SpeakEazy:	Nov 2023 – Apr 2024
<i>Tools : Deep Learning, MediaPipe, TensorFlow, LSTM, OpenCV</i>	
Tech Stack : Python, Django, HTML, CSS, JavaScript	
<ul style="list-style-type: none">Led and Developed SpeakEazy with a team of 11 developers, a DL-powered system to bridge the gap between deaf and mute. "Analysis Paralysis" by analyzing their actions and Body language using Deep LearningImplemented 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 k-fold cross-validation (k=10), 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 reducing latency < 70 ms.	

PROFESSIONAL EXPERIENCE

Full Stack Development Intern ~ BrainoVision	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.

CERTIFICATES

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| • Google Associate Cloud Engineer | • RPA Developer by UiPath | • Deep Learning by IIT Ropar | • Salesforce Developer Certification by Trailhead |
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