# Mukesh Vemulapalli

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## Education

**Rajiv Gandhi University of Knowledge Technologies, Nuzvid** — Nuzvid, India
*Bachelor of Technology in Electrical, Electronics, and Communications Engineering* — *Sep 2022 – May 2026*

## Experience

**LLM Engineer** — Jul 2024
*Sentient Matters* — *Contract, Remote, India*

- Developed a banking helpline bot using LLaMA-2 and fine-tuned the model for banking purposes.
- Reduced human intervention by automating customer support tasks and deployed the solution to production.

**AI Intern** — Aug 2024 – Present
*Cloud Counselage Pvt. Ltd.* — *Remote, India*

- Developed an AI Code Plagiarism Detector for the IAC (Industry-Academia Community) to review projects, reducing evaluation time by 90% and deploying it into production.
- Worked on a Plant Disease Detection system using Deep Learning.
- Designed a Chatbot using Deep Learning for diverse applications.

## Projects

**Inventory Management Using Generative AI** | *Streamlit, SQLite, Gemini Pro AI* — July 2024

- Developed an AI-powered inventory management system to track and manage product inventories using Generative AI.
- Built a user-friendly web interface with Streamlit integrated with a SQLite database.
- GitHub Link

**Plant Disease Detection System** | *Deep Learning, TensorFlow, Python* — May 2024

- Developed a deep learning model to detect and classify plant diseases for precision agriculture.
- Developed a Convolutional Neural Network that can be fine-tuned for any kind of custom plants with custom datasets.
- GitHub Link

**Chatbot Using Deep Learning** | *TensorFlow, Python* — April 2024

- Built a conversational chatbot using deep learning models for versatile applications.
- The chatbot can auto-train to handle queries of any industry using custom datasets.
- GitHub Link

## Technical Skills

**Technologies**: Machine Learning, Deep Learning, LLM, Gen AI, Computer Vision, Natural Language Processing
**Languages**:Python, C, C++, Java, Dart, JavaScript
**Frameworks**: TensorFlow, PyTorch, Keras, LangChain, OpenAI, LlamaIndex, Flutter
**Libraries**: NumPy, Pandas, Matplotlib, OpenCV, MediaPipe, scikit-learn, NLTK
**Tools**: VS Code, Postman, Git, Docker
**Databases**: MySQL, MongoDB
**Cloud Platforms**: AWS, Google Cloud
**Hardware**:Arduino Uno Board , NXP i.MX RT117H Board

## Achievements

Top 5 in VLSI Design Contest at VLSI Design Conference 2025 for developing a Museum Guide Bot with gesture recognition and voice recognition using the NXP i.MX RT117H board.

Finalist in Avishkaar Season 2 for developing an AI Travel Assistant.

Top 10 in the Regional Finale of NXP AIM (Artificial Intelligence in Mobility) for building an autonomous car in Gazebo and ROS using computer vision techniques for path planning.

Participated in Hacktoberfest 2024, contributing to an AI Medical Chatbot and various ML projects such as a Netflix movie recommendation system, JEE rank analysis, and institute prediction.