

SAKETH LINGERKER

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EDUCATION

JNTUH University College of Engineering, Manthani

July 2025

Bachelor of Technology in Computer Science - 7.50 CGPA

EXPERIENCE

International Institute of Information Technology, Hyderabad (IIIT-H)

Nov 2024 – June 2025

Research Intern – Artificial Intelligence and Machine Learning

- Conducted research on Voice Activity Detection (VAD) to enhance YouTube video summarization, reducing watch time while maintaining key content.
- Implemented and refined Rapid Voice Activity Detection (RVAD) algorithms for efficient speech processing.
- Collaborated with researchers to enhance AI-driven summarization models, improving content retention and accessibility.

PROJECTS

Vehicle Insurance MLOps Pipeline – End-to-End Deployment

- Built an MLOps pipeline using **Python**, with **MongoDB** for data storage, **AWS (S3, EC2, ECR)** for deployment, and **GitHub Actions** for CI/CD automation.
- Outcome:** Streamlined model lifecycle with automated training, evaluation, and deployment; ensured production-grade reliability and scalability.

Smart Resume Matching and Application Tracking Platform

- Developed a resume evaluation tool using **Streamlit** and **Gemini Pro Vision** to simulate HR and ATS-style feedback.
- Outcome:** Generated match scores and keyword insights to optimize resume-job alignment and improve shortlisting chances.

AI-Powered Forecasting for Agriculture Productivity

- Designed a crop recommendation system using a **deep neural network** with Tanh and Softmax layers, reaching **98% accuracy**.
- Deployed as a **Flask web app** to guide farmers in selecting high-yield crops based on environmental inputs.

ClearView – Interactive Air Quality Insights

- Built an interactive AQI dashboard using **Python, Power BI, and Streamlit**, enabling real-time insights with **95% data accuracy**.
- Streamlined data collection and preprocessing, delivering actionable visualizations and a user-friendly interface.

TECHNICAL SKILLS

Languages: Python, C++, SQL

Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Transformers, Seaborn, Matplotlib, OpenCV, LangChain

Frameworks: Flask, FastAPI, Streamlit

Technologies: Machine Learning, Deep Learning (CNN), NLP, GenAI, MLOps, End-to-End ML Pipelines

Tools/Platforms: Git, GitHub, Jupyter, Google Colab, Docker, Google Cloud, AWS (EC2, S3, ECR), DVC, MLflow, CI/CD

Databases: MySQL, MongoDB

Core CS: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Operating System

Soft Skills: Problem Solving, Team Collaboration, Leadership, Critical Thinking

CERTIFICATIONS & LEADERSHIP

- AI/ML Research Internship** – IIIT Hyderabad
- AWS Cloud Practitioner** – Amazon Web Services
- Mentored 50+ students as **Coding Club Mentor**
- Main Coordinator, 2 College Fests & Tech Coordinator – Fest Logistics