# 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, C++, SQL
**Libraries:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Seaborn, Matplotlib, OpenCV, LangChain
**Technologies:** Machine Learning, Deep Learning (CNN), NLP, GenAI
**Tools/Platforms:** Git, GitHub, Jupyter, Docker, Google Cloud, DVC, MLflow
**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

- **IIIT-Hyderabad** – AI/ML Training cum Research Internship Program
- **AWS Cloud Practitioner** – Amazon Web Services
- **Coding Club Mentor** – Mentored 50+ students in programming and tech skills
- **Technical  Main Coordinator** – Managed end-to-end logistics for flagship college fests