

Katru Rithvik

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SUMMARY

Dedicated machine learning intern with a foundation in machine learning and experience in building and deploying machine learning models. Proficient in Python, Java, TensorFlow, OpenCV, and Scikit-learn, with a focus on developing accurate, data-driven solutions. Skilled in problem-solving with the ability to collaborate effectively, communicate technical ideas clearly, and adapt in dynamic environments.

EXPERIENCE

Machine Learning Intern

Google for Developers

July 2024 – September 2024, Hyderabad

- Led the conception, development, and deployment of machine learning models for real-world applications.
- Engineered solutions using Python, applying robust data preprocessing and pipeline strategies.
- Implemented and fine-tuned supervised learning algorithms, leveraging evaluation metrics for performance optimization.

PROJECT

Music Recommendation System -- Lyrics Based | Python , Scikit-learn , NLTK

github.com/krithvik07/Music-Recommendation-System • May 2025 – June 2025

- Developed a lyrics-based music recommendation system using TF-IDF and cosine similarity on a dataset of over 120 songs to suggest lyrically similar tracks.
- Built a real-time Streamlit web app with sub-second response time, leveraging Python, NLTK, and scikit-learn to enable seamless user interaction.
- Implemented an NLP pipeline that processed and vectorized over 25,000 lines of lyrics, enabling accurate content-based filtering beyond genre or artist.

Lip Reading AI -- Visual-Speech-Recognition | Python , TensorFlow , OpenCV

github.com/krithvik07/Lip-Reading-AI-Visual-Speech-Recognition • March 2025 – April 2025

- Developed a visual speech recognition system using LipNet to predict spoken sentences from silent video input (75-frame, 140×46 grayscale).
- Built an interactive Streamlit web app using the GRID dataset (34 speakers × 1,000 videos) with real-time lip reading and visualization.
- Integrated TensorFlow, OpenCV, and FFmpeg; optimized for applications in accessibility and silent command systems.

EDUCATION

Bachelor of Technology – Computer Science | Artificial intelligence and Machine Learning

Gokaraju Rangaraju Institute of Engineering and Technology • Hyderabad,Telangana • 2026

- **Concentrations:** Intelligence and Modeling/Simulations.
- **Related Coursework:** Computing in python , Machine Learning , Artificial Intelligence , Object-Oriented Programming , Statistics & Applications , Data Structures and Algorithms.

CERTIFICATIONS

Google For Developers AI-ML Virtual Internship

Google • 2024

Introduction to Deep Learning

Infosys • 2025

Programming using Java

infosys • 2025

SKILLS

Programming languages – Python , Java.

Technologies – TensorFlow, OpenCV, Scikit-learn, CNN, Git .

Key Competencies – Algorithm design, Data analytics , Problem Solving.

Interpersonal Skills: Team Work, Critical Thinking, Analytical Thinking, Effective Communication.
