

# Aaditya Rajendra Trivedi

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## WORK EXPERIENCE

### Conversia AI - Certificate

ML Team Lead

Noida, UP

January 2025 – March 2025

- Led development of a Retrieval-Augmented Generation (RAG) chatbot using LangChain & HuggingFace, boosting client employee productivity by 20%.
- Managed and mentored 6 ML interns, delivering 2 client-facing ML projects on time.
- Developed a YOLO-v8 food damage detection system with 96% accuracy on 10,000+ images. Implemented model optimization and evaluation pipelines, reducing inference latency by 15% and ensuring production readiness.

## SKILLS

**Languages:** Python, Java, R, MATLAB, HTML, CSS, React, MySQL, Flutter

**Technologies & Soft skills:** GitHub, AWS, Machine Learning, Deep Learning, TensorFlow, Keras, PyTorch, Computer Vision, HuggingFace, LangChain | Project management, Agile, Communication, Leadership

## CERTIFICATIONS

- **Global Certifications & Other Certifications:** Oracle Cloud Infrastructure 2025 Certified Generative AI Professional, Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate | AWS Academy Solutions Architecture, ML Crash Course Google developers, BlackBucks Data Science & Business Analytics

## PROJECTS

### Deepfake Video Detection – [GitHub](#)

- Led a team of 4 to build a dual-stream CNN-LSTM deepfake detection model, achieving 78% accuracy and 82% AUC.
- Applied ELA preprocessing and temporal sequence learning, improving detection accuracy of subtle facial inconsistencies by 12–15% compared to baseline CNN models.

### HackByte Hackathon Project – [Demo](#)

- Engineered a deepfake audio detection system by training and validating a custom CNN on mel spectrogram datasets, achieving 82% accuracy.
- Leveraged Python, TensorFlow, and audio signal processing to deliver a scalable AI-powered mobile application, further optimizing model size by 30% for efficient mobile deployment.

### GoogleDevs Sprint'25 Hackathon – [Paisa Banao AI](#)

- Built a RAG-based finance chatbot using LangChain & HuggingFace, achieving 90%+ accuracy on text retrieval.
- Designed dataset pipelines that improved retrieval accuracy by 18% and enabled faster responses for 200+ benchmark financial queries.

### Fraud Transaction Detection – [Kaggle](#)

- Detected fraud in 63 million+ simulated transactions using XGBoost.
- Achieved 96% recall on fraud and 100% true negative rate.

## AWARDS & PUBLICATIONS

- **IEEE Publication 2025:** “Dual-Stream CNN-LSTM Framework with ELA Preprocessing for Deepfake Detection”
- **VIT-AP Engineering Clinics 2023-24:** 2nd Place
- **HackByte Hackathon:** Finalist
- **GoogleDevs Sprint'25 Hackathon:** Finalist

## EDUCATION

### Vellore Institute of Technology - AP

Bachelor of Technology in Computer Science Engineering, CGPA: 8.76/10.00

Amaravati, AP

Expected August 2026

- **Concentrations:** Machine Learning & Artificial Intelligence
- **Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Deep Learning, Statistics, NLP, Python, OOP in Java, Software Engineering, Design & Analysis of Algorithms, Database Management Systems

## INVOLVEMENT

### Association of Computer Machinery (VIT-AP Chapter)

Senior Technical Community Manager

- Led and mentored a 40-member team, including 2 technical leads to plan and execute multiple hackathons, bootcamps, and technical workshops.
- Enhanced community engagement by organizing 5+ events and workshops, increasing active participation by 30%, and promoted technical skill development among 100+ student members.