Swayam Chaurasia

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SUMMARY

ML Engineer specializing in multimodal LLMs and production ML systems. Experience leading cross-functional teams on fraud detection, real-time computer vision, and RAG-based chatbots. Proficient in end-to-end ML pipelines from research to deployment using PyTorch, Transformers, and modern MLOps practices

EDUCATION

Vellore Institute of Technology - AP   Graduation: 2026 | CGPA: 8.86/10
Bachelor of Technology in Computer Science (AI & ML specialization)
Relevant coursework: Machine Learning, Deep Learning, NLP, Computer Vision, Reinforcement Learning, Data Analysis

PROJECTS

Insurance Fraud Detection System   Sep 2024 – Nov 2024 | Team Leader
- Led the development and coding of models including custom ANN, ensemble learning, and TableNet.
- Applied SMOTE for data augmentation and evaluated models using multiple metrics.
- Improved model fairness and interpretability through calibration and feature importance.
- Technologies: Python, Keras, scikit-learn

Live Emotion Detection System   Feb 2025 – May 2025 | Solo Project
- Developed an emotion detection system using OpenCV and Haar cascade classifier.
- Trained MobileNetV2 transfer learning model on FER-2013 dataset for real-time prediction.
- Technologies: Python, OpenCV, Keras

Geospatial Expert Chatbot   Aug 2025 – Present | Team Leader
- Integrating Retrieval-Augmented Generation (RAG) and Large Language Model APIs for chatbot development. Enabled accurate query responses for domain-specific datasets.
- Using function calling to call specific geospatial API to retrieve specific data needed for specific queries.

SKILLS

- **Programming Languages**: Python, C++, Java, SQL
- **ML**: PyTorch, Keras, Transformers (Hugging Face), scikit-learn, Optuna, LangChain, LoRA/PEFT
- **MLOps & DevOps**: FastAPI, DVC, GitHub Actions, CI/CD, Git
- **Data Processing & Collection**: FAISS/Chroma, Pandas, NumPy, Web-scraping (Selenium, BeautifulSoup)

CERTIFICATIONS

- Oracle Cloud Infrastructure — Generative AI Professional (2025)
- Google Cloud Inspect Rich Documents with Gemini Multimodality & RAG (2025)
- Microsoft Azure AI Fundamentals (2024)