Gaurav Gali

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EXPERIENCE

CTD TECHS | AI Intern
May 2025

- Built ML models for government document processing (Aadhar, PAN, Driving License, Passport) to extract key details and censor sensitive data.
- Implemented RPA workflows using n8n and Automation Anywhere.

MICROSOFT INNOVATIONS CLUB | Vice President
March 2025

- Led development of a secure recruitment portal (NextJS 14, MongoDB, Clerk) and managed a 20-member cross-functional team.

OPEN SOURCE PROGRAMMING COMMUNITY | Web Development Lead
October 2024

- Directed end-to-end development of the official website and organized large-scale hackathons and a ReactJS webinar.

PROJECTS

DRONE THREAT DETECTION AND CLASSIFICATION | AI-based Security System

- Real-time drone detection, tracking, and classification with trajectory prediction and threat assessment.
- Integrated RF frequency sensing, ESP32 WiFi scanning, and blockchain for secure drone data storage.
- Live map integration for precise geolocation of detected drones.

OIL SPILL DETECTOR | Predictive Environmental Monitoring

- Analyzes 50+ ship parameters to predict and detect potential oil spills.
- Provides early warnings and estimates impact range if a spill occurs.

ZAPPER AI | Document Intelligence Platform

- AI chatbot that summarizes and answers questions from user-uploaded documents.
- Built with Python, LangChain (OpenAI), FAISS, and HuggingFace NLP.

CATCHUP SOCIAL | Community-Focused Social Platform

- Privacy-first micro-blogging and messaging platform with posts, follows, and chat features.

VERGE | Custom Programming Language

- Designed a simple, strongly-typed, verbose language prototype from scratch.

CONTACT

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY (CHENNAI)
B.Tech in Computer Science and Engineering | AI-ML
Expected May 2027

TECHNICAL EXPERTISE

Advanced: Python, Java, JavaScript/TypeScript, ReactJS, NextJS, Django, REST Framework
Intermediate: HuggingFace, Ollama, MongoDB, Supabase, MySQL, NeonDB, Drizzle ORM, LangChain
Emerging: React Native, Firebase

DEVELOPMENT TOOLS

JetBrains IDEs, Postman, Warp Terminal, Ollama, Copilot, Google Colab, Anaconda

LEADERSHIP

Microsoft Innovations Club (MIC)
Open Source Programming Community (OSPC)