

# ADITYA RAJESH

AIML Student

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[LinkedIn](#) | [GitHub](#) | [Blog](#)

## EDUCATION

### Atria Institute of Technology

Degree in B.E. in Artificial Intelligence and Machine Learning

CGPA: 8.5 CGPA.

Bangalore, India

June 2023. - July 2027.

### IIT Guwahati

Degree in Minor in Data Science

Guwahati, India

November 2024 - June 2026

## EXPERIENCE

### DataTreasure | AI Automation Intern

London, UK (Remote) | September 2025 - January 2026

- Built a fully deployed hierarchical RAG-based TMF intelligence platform using LlamaIndex, Azure OpenAI, Google ADK, metadata-aware retrieval, and Cohere reranking, productionized on AWS (S3, API Gateway) with Terraform CI/CD and Cloudflare frontend.
- Developed FastAPI services supporting artifact lookup, zone/section navigation, document analysis, and audit workflows with structured logging and enterprise-ready observability.
- Designed n8n-based automation workflows for social media engagement, integrating LLM-driven comment classification and response generation, YouTube APIs, Supabase persistence, and rule-based branching to deliver fully automated, personalized comment interactions at scale.
- Built an n8n-orchestrated, LLM-assisted video intelligence pipeline that discovers, scores, and filters high-performing YouTube content using engagement-based heuristics, structured LLM validation, and API-driven analytics, with automated persistence to Google Sheets for downstream analysis.

### FPT Software & Hyundai | AI Team Leader

Hanoi, Vietnam (Remote) | July 2025 - September 2025

- Led development of an X-ray segmentation system (mAP 0.82, +12% over baseline), driving measurable performance gains.
- Optimized polygon masks, cutting false positives and boosting segmentation precision by 23% across diverse datasets.
- Engineered a severity scoring model (area, compactness, edge density, part-criticality), improving prioritization accuracy by 41% overall.
- Automated normalized coordinates, repair estimates, and part-critical alerts, increasing inspection throughput by 33% in production.
- Strengthened GitLab CI/CD pipelines with Personal Access Tokens, improving deployment reliability by 15% and ensuring seamless rollouts.
- Developed downloadable PDF inspection reports with defect visualizations and repair estimates, enhancing transparency and usability.
- Took full accountability while demonstrating adaptability, ownership, and rapid learning, enabling cross-team collaboration and fast delivery.
- As team leader of the AutoInspectAI project, presented the solution to senior representatives from Hyundai (South Korea) and the FPT Vice President, demonstrating accountability, technical expertise, and effective stakeholder communication.

### Google Developer Groups | Creative Lead

Bangalore, India | February 2024 - July 2025

- Took the lead in designing and shaping the creative direction for a National Level Hackathon organized by GDG.
- Worked with the core team to build branding, posters, digital assets, themes, and visual storytelling using Photoshop, and Figma, ensuring design consistency and impactful brand presence.
- Helped drive participation through engaging visuals and promotions, attracting 500+ participants from 90+ colleges nationwide.
- Played a key role in the smooth execution of the event, contributing to its positive reception and national reach.

### Code Club | President/Software Developer

Bangalore, India | December 2024 - August 2025

- Contributed to inter-college projects for a techno cultural fest, including AI Mandala Magic, engaging 600+ students from 20+ colleges.

- Built a full-stack application with Flask, APIs, and frontend-backend integration, reducing response time by 40% through caching and optimized API calls, while ensuring a seamless user experience.
- Deployed the project live, supporting 250+ concurrent users during the fest with smooth accessibility and zero downtime.

## SKILLS

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Programming Languages: C, Java, Python, HTML, CSS, JavaScript  
 Libraries/Frameworks: Flask, PyTorch, YOLOv8, OpenCV, React, FastAPI  
 Tools / Platforms: Git, VS Code, Linux, GitLab (CI/CD), RunwayML  
 Databases: SQL, MongoDB, Chroma DB, S3

## PROJECTS / OPEN-SOURCE

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### AI Robot "Leena" | [Link](#) *NVIDIA Jetson Orin Nano (8GB), Arduino Mega 2560*

Engineered an indigenous AI robotic assistant integrating Raspberry Pi and Arduino control, LiDAR-based SLAM, voice-driven NLP intent handling, vision-assisted interaction, and GSM-backed safety workflows for autonomous, real-time user assistance.

### AI-Art-Generator | [Link](#) *JavaScript, CSS, HTML, Hugging Face API*

Built and deployed a full-stack AI web app for mandala artwork generation using Flask, REST APIs, and responsive frontend (HTML, CSS, JS); ensured zero downtime and served 200+ users with 1,500+ artwork requests during an inter-college fest.

### Real-Time Dumper Load Monitoring System (RTDLS) | [Link](#) *Embedded C, nrf24l01, RFID, arduino uno, Weighing Load Cell Sensor YZC-131, HX711*

Real-time load tracking with sensors/RFID and LoRaWAN connectivity, backed by cloud storage for live analytics to boost mining efficiency.  
 This integration reduces idle time, cuts fuel consumption, and maximizes operational productivity.

### Footfall Counter using Computer Vision | [Link](#) *YOLOv8, OpenCV, NumPy, FastAPI, JavaScript*

AI-powered footfall counting platform using YOLOv8 person detection, polygon-based zone tracking, and FastAPI/JavaScript frontend to process uploaded videos and deliver annotated traffic analytics.

## CERTIFICATIONS

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- Responsible AI: Applying AI Principles with Google Cloud - **GOOGLE**
- Large Language Models - **GOOGLE**
- Prompt Design in Vertex AI - **GOOGLE**
- Manage Data Models in Looker Google - **GOOGLE**
- Develop GenAI Apps with Gemini and Streamlit - **GOOGLE**
- Implement Load Balancing on Compute Engine - **GOOGLE**

## HONORS & AWARDS

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- Hackathon Achievements : Finalist in two intercollegiate hackathons at Atria Institute of Technology, including one sponsored by Oracle.
- Selected as a top team for the National Level Smart India Hackathon (SIH).
- Excelled in multiple tiers of the All India General Knowledge Examination.
- Awarded Silver Medal at the regional level by Scientific Olympiad Foundation (SOF).