

Aryan Rastogi

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EDUCATION

Manipal University Jaipur

B.Tech in Computer Science and Engineering | CGPA: 8.94/10

Jaipur, India

Sept 2024 – Jul 2028

TECHNICAL SKILLS

Languages: Python, C++, SQL, TypeScript

AI/ML Frameworks: PyTorch, TensorFlow, scikit-learn, Hugging Face Transformers, LangChain, OpenCV, YOLOv8

Full Stack: React, Next.js, Node.js, FastAPI, REST APIs, Supabase

Tools & Platforms: AWS, Google Cloud Platform, Docker, Git, Kaggle, Neo4j

Techniques: Fine-tuning (SFT, LoRA, QLoRA, RLHF, DPO), RAG, Knowledge Graphs, NLP, Computer Vision

WORK EXPERIENCE

Sylus AI

AI Engineer Intern

Remote

April 2026 – Present

- Built core modules for an autonomous social media platform, implementing user and agency onboarding with automated brand data extraction from websites and PDFs.
- Developed AI-driven brand kit generation and content pipeline using multi-model LLMs for brand-aware copywriting, image design, and knowledge base enrichment.

Elumina Street Solutions

AI Research & Development Intern

Remote

March 2025 – June 2025

- Developed a real-time violence detection model combining CNN-MobileNet and LSTM in TensorFlow; improved class imbalance handling with focal loss and class weighting.
- Implemented and evaluated a real-time weapon detection system using YOLOv8 and OpenCV, collaborating with the research team on hyperparameter optimization.

AI: Computational Linguistics & Vision Lab

Research Intern

Jaipur, India

Jan 2025 – Present

- Investigated trade-offs between safety alignment and creative capability in LLMs; findings contributed to *Quantifying the Alignment Tax: Tracking Creativity and Semantic Entropy through the SFT and DPO Pipeline*.
- Designed taxonomy-guided safety evaluation pipeline across multiple alignment paradigms (SFT, LoRA, DPO, RLHF); contributed to *SafeAlign: A Multi-Paradigm Pipeline for LLM Safety Evaluation via Taxonomy-Guided Data Curation*.

PROJECTS

RoadEye – AI-Based Road Safety Audit System IIT Madras NRSB 2025

- Built an end-to-end AI pipeline for automated road infrastructure auditing using YOLO-based object detection to identify road assets and defects, generating structured PDF audit reports with risk scores and GIS-ready outputs.

TeXLab – AI-Powered LaTeX Generation Tool

- Built TexLab, an AI-powered tool that converts natural language and NLP outputs into structured LaTeX content such as tables, diagrams and formatted documents. Designed a pipeline to parse unstructured input and generate clean, publication-ready LaTeX, reducing manual formatting effort.

UniWay – Campus Navigation Platform

- Developed a campus navigation prototype with interactive maps, smart search, and student services using React, TypeScript, Leaflet, and Google Maps API.

GeoVerse – Geospatial Intelligence Assistant

- Built an AI-powered conversational assistant transforming satellite data from the MOSDAC portal into contextual answers via NLP, knowledge graphs, and semantic search using Neo4j, LangChain, and FastAPI.

ACHIEVEMENTS

National Road Safety Hackathon (IIT Madras): Ranked in top 10 finalist teams nationwide out of 3.5k+ competing teams, and presented RoadEye to a panel from CoERS, IIT MADRAS

UniWay Hackathon Winner Secured 1st place and got an interdisciplinary project with Southern Federal University, Russia.

Solana Bounty Winner: Won \$60 bounty prize and earned recognition as a Global Superteam Contributor on the Solana blockchain ecosystem.

Brandit Hackathon Winner Secured 2nd place among competing teams in a brand-tech focused hackathon.

Student Excellence Award: Received the Student Excellence Award consecutively in the 3rd and 4th semesters at MUJ.

Dean's List: Earned Dean's List distinction in the 2nd semester for top academic performance.