

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: C++, Python, 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, Neo4j

Techniques: Fine-tuning, RAG, Knowledge Graphs, NLP, Computer Vision, DSA

WORK EXPERIENCE

Sylus AI

AI Engineer Intern

Remote

April 2026 – Present

- Engineered core modules for an autonomous social media platform; built automated brand data extraction pipeline ingesting websites and PDFs to populate structured knowledge bases.
- Developed AI-driven content generation pipeline using multi-model LLMs for brand-aware copywriting and image design, reducing manual content production effort significantly.

Southern Federal University

SDE Intern

Russia (Remote)

Oct 2025 – Nov 2025

- Developed a web application as part of an international interdisciplinary project with SFedU and MUJ to help international students navigate and adapt to campus facilities.

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.

AI²: Computational Linguistics & Vision Lab

Research Intern

Jaipur, India

Jan 2025 – Present

- Investigated safety-creativity trade-offs 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.

UniWay – Campus Navigation Platform | Hackathon Winner

- Developed a campus navigation platform with interactive maps, smart search, and route guidance using React, TypeScript, Leaflet, and Google Maps API; won 1st place and led to international research collaboration with SFedU, Russia.

TeXlab – AI-Powered LaTeX Generation Tool

- Built a tool converting natural language into structured LaTeX (tables, diagrams, formatted documents) with a client-side rendering pipeline for live compiled preview, reducing manual formatting effort.

ACHIEVEMENTS

India Innovates 2026 Finalist (Bharat Mandapam, New Delhi): Shortlisted among finalists from 25,000+ participants in India's largest civic tech hackathon, organized by BYHN × MCD in collaboration with IIT KGP, NSUT, and GGSIPU.

National Road Safety Hackathon (IIT Madras): Ranked in top 10 finalist teams nationwide out of 3,500+ competing teams; presented RoadEye to a panel from CoERS, IIT Madras.

UniWay Hackathon – 1st Place: Won first place and secured an interdisciplinary research collaboration with Southern Federal University, Russia.

Student Excellence Award: Received consecutively in the 3rd and 4th semesters at MUJ for outstanding academic and extracurricular performance.

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