

LAKSHYA JAIN

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Education

Maharaja Agrasen Institute of Technology

B.Tech in CSE (AI/ML) — CGPA: 8.96

2023-2027

New Delhi, India

St. Joseph's Academy

Class 12th (91.4%) — Class 10th (94.4%)

2020-2023

Technical Skills

Languages: C++, C#, Python, Java, JavaScript, SQL

AI/LLM: LLMs, RAG, LangGraph, Agentic AI, Gen AI, Transformers, Embeddings, PyTorch, TensorFlow

Frameworks & Tools: ROS2, Unity (XR), OpenCV, Node.js, React, Docker, Git, MongoDB, MySQL

Core Concepts: Data Structures & Algorithms, OOP, Production ML, Distributed Systems, Cloud-native, Azure

Soft Skills: Rapid Prototyping, Technical Mentorship, Teaching, Leadership, Agile/Scrum, Growth Mindset

Experience

Hive Pro, Inc.

AI Engineer Intern

Jun 2026 – Present

Dubai, United Arab Emirates — Remote

- Built and deployed **production-grade AI platforms**, including an **ISMS portal**, **customer onboarding** and **sales outreach agentic platforms**.
- Designed **human-in-the-loop AI systems** with approval workflows, **RBAC**, **tenant isolation**, and **policy-based guardrails** to ensure safe and controlled automation.
- Engineered **LLM/agent pipelines** integrating **Claude**, **LangGraph**, **RAG**, **embeddings**, and **document processing**, with external systems including **HubSpot**, **Slack**, **Gmail**, **Fathom**, and **NATS**.
- Hardened production systems through **security and risk audits** covering authentication, authorization, API protection, secret management, data isolation, AI grounding, concurrency, and automated testing.

Rainwire Solutions Pvt. Ltd. (WARDEC-Indian Army)

AI Engineer Intern

Jan 2026 – May 2026

New Delhi

- Built a **secure mobile application** for military personnel (soldiers and brigadiers) under NDA.
- Fine-tuned a **8B Parameter LLM** on **in-house datasets** using for **3-way classification**, achieving **88–92% accuracy**.
- Developed a **data acquisition pipeline** using **Playwright** and **Selenium**, automating large-scale scraping & preprocessing.
- Built an **AI-based deepfake detection pipeline**, for Videos, Images, Text and URLs to detect manipulated media.
- Contributed to **backend development and deployment** of AI services on secure government infrastructure.

Scrini AI Pvt. Ltd.

AI Engineer Intern

Dec 2025 - Feb 2026

Remote

- Architected an **AI-powered resume search engine** using **Python**, **FastAPI**, and **Qdrant**, enabling semantic matching across **10K+ candidate profiles** with **sub-50ms retrieval latency** via HNSW indexing.
- Designed an **asynchronous NLP pipeline** with **hybrid retrieval** and **cross-encoder reranking**, combining vector similarity (cosine), metadata filtering, and deep semantic ranking for improved relevance.
- Deployed a **scalable 3-tier microservices architecture** (FastAPI backend, Streamlit UI, vector database) using **Docker** and **Docker Compose**, ensuring production-ready orchestration and modularity.

Indian Institute of Technology, Delhi- FSM Lab

Extended Reality (XR) Intern

Jan 2025 – Apr 2025

New Delhi

- Architected an interactive Industrial Training toolkit in **Unity** and **C#**, reducing employee onboarding time by **75%**.
- Developed a real-time AI integration pipeline using Python Flask to sync voice commands with 3D CAD models.
- Engineered physics-accurate scripts, achieving **98% mechanical fidelity** compared to physical hardware.
- Link: https://youtu.be/KJb_Zj6nsIE

Maker's Asylum

Technical Mentor (VR, Robotics & AI)

Apr 2025 – Present

Remote

- Mentored 250+ students in robotics hardware and **Computer Vision**; designed a scalable AI/ML curriculum for 3 cohorts.
- Empowered underserved students by conducting workshops on Arduino and AI technologies among 25+ participants.

A.T.O.M Robotics Lab

Technical Team Member

Oct 2024 – Present

New Delhi

- Built an autonomous GPS navigation system for a Mars Rover prototype using **ROS2** and **Python**.
- Implemented sensor fusion (LiDAR + IMU) for precise path planning and obstacle avoidance in Gazebo simulations.

Key Projects

SETU — GPS-Denied Egomotion Tracking [Website/APK]

Android / Full Stack/ AI-ML

C++ + 2D, Kotlin, Android, PyTorch, TensorFlow Lite, Eigen, GNSS/IMU, RI-EKF, MapLibre

- Developed an offline navigation system for **GNSS-denied environments**, combining inertial sensing, road constraints, and map-based localization to bridge GPS outages.
- Implemented a **Spectral Velocity Odometry (SVO)** pipeline that extracts wheel-rotation frequencies from smartphone accelerometer vibrations to estimate vehicle speed without double-integrating acceleration.
- Built an on-device **CNN-GRU velocity model** trained on real vehicle recordings, with a **207 KB model having 84000+ parameters** achieving **1–5 ms inference latency** on mobile devices.
- Developed a high-rate sensor pipeline processing real driving data at up to **227 Hz**, with offline maps, continuous GNSS-to-dead-reckoning handover, and deterministic replay for validation.

Product Pricing Prediction (Amazon ML Challenge)

Top 20% Global Ranking

Python, PyTorch, Scikit-learn, Pandas, NumPy, Transformers (BERT), LightGBM, OpenCV

- Developed a multimodal pricing pipeline processing **150,000+ products** using text (BERT) and image (ResNet) embeddings.
- Achieved **21.06% SMAPE** by ensembling XGBoost and LightGBM models, outperforming baseline models by 15%.
- Achieved a top 20% placement on the global leaderboard for high-accuracy model performance.

TokenForge - Aptos Blockchain Launchpad

Web3 / Full Stack

Full-Stack Development (Next.js, React, Node.js, Supabase), Web3 (Aptos, Move Smart Contracts)

- Engineered a full-stack token launchpad with automated **Move** contract generation, locking 90% supply in liquidity pools.
- Launched a coin named "Lakshyacoins" and real users bought the coin using Petra wallet, having all the coin details on the platform.
- Link: <https://youtu.be/sgqXnA14aEE>

Leadership & Achievements

- **Creativity:** Member of WHATACLICK(photography club), Keyara (fashion club) and Finversion (finance club).
- **Microsoft Engagement:** Led a 10-member team in a Drone Workshop at Microsoft Gurgaon; demonstrated leadership and technical communication.
- **Winner:** Computer Science Quiz at MEITY's Digital India session.
- **Endurance:** Finisher, 15km Vedanta Delhi Half Marathon 2024.