

Aayush Sharma

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EDUCATION

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| Manipal University Jaipur <i>B.Tech. in Computer Science Engineering (Artificial Intelligence and Machine Learning)</i> | Jaipur, Rajasthan 2023 – Present |
| Delhi Public School, Sec-45 <i>PCM with Computer Science</i> | Gurugram, Haryana 2019 – 2023 |

WORK EXPERIENCE

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| SDE Intern <i>At Airtel</i> | May 2025 – Jul 2025 <i>Gurugram, Haryana</i> |
| <ul style="list-style-type: none">Engineered a Voicebot Onboarding platform, reducing customer integration time by 27%.Fine-tuned STT (Speech-to-Text) models tailored for Indian languages, improving transcription accuracy.Designed scalable architectures using Next.js, Spring Boot, and MongoDB to handle 10,000+ daily concurrent requests with <200ms latency.Integrated REST APIs and advanced LLM fallback handling to automate onboarding workflows, reducing manual intervention by 40% and intent recognition errors by 25% while ensuring pipeline stability. | |
| Treasurer <i>At Turing Sapiens</i> | Aug 2025 – Present <i>Manipal University, Jaipur</i> |
| <ul style="list-style-type: none">Managed financial planning, sponsorships, and budgeting for hackathons and society operations.Conducted interviews for the Core Committee, evaluating technical and interpersonal skills of applicants | |
| Head of Projects <i>At Turing Sapiens</i> | Aug 2024 – Apr 2025 <i>Manipal University, Jaipur</i> |
| <ul style="list-style-type: none">Framed and curated problem statements for 3 university-level hackathons, engaging 500+ student participantsUpskilled across various tech domains, with a strong focus on web development and hands-on projects | |

SKILLS

Languages/Frameworks: Python, C/C++, JavaScript (TypeScript), SQL (Postgres), HTML/CSS, React, Next.js
Developer Tools: Git, Google Cloud Platform, VS Code, PyCharm, Postman, Grafana, Jira, Docker
CS Fundamentals : DBMS, OOP, Data Structures and Algorithms, Operating Systems
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, PyTorch, MUI

PROJECTS

- Deloitte Capstone: Fair Lending AI Validation Workbench** | *Next.js, FastAPI, LangChain* Oct 2025 – Present
- * Architected a GenAI-powered audit platform to detect algorithmic bias in student loans, generating **3,100+ synthetic profiles** to rigorously test edge cases across demographic dimensions.
 - * Engineered a **Human-in-the-Loop (HITL)** workflow where auditor feedback drives Agentic Iteration, dynamically refining scoring logic to achieve **0.95+ Approval Rate Parity**.
 - * Deployed a compliance-ready dashboard to visualize real-time fairness metrics, iterating on feedback from Deloitte mentors
- Cloud Computing Resource Optimizer [Patent Pending]** | *Python, React.js, TensorFlow* Sep 2024 – May 2025
- * Engineered a predictive autoscaling system using **Long Short-Term Memory (LSTM)** models and **Docker** to forecast CPU/Memory demand in advance, preventing system bottlenecks.
 - * Optimized cloud cost efficiency by identifying over-provisioning patterns, demonstrating a projected **20–35% reduction** in cloud billing while ensuring **zero-downtime** reliability.

CERTIFICATIONS & ACHIEVEMENTS

Certifications: DSA (NPTEL), CodeChef), AI Essentials (Google), DAA (NPTEL), Python (Cisco), SQL (Oracle)
Leadership & Innovation: Secured **pre-incubation** for a startup prototype after winning 2 Ideathons, and drove AI adoption for 200+ students as a Campus Partner for **Perplexity**.