

S Harshni

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EDUCATION

B.Tech, CSE (AI/ML) | CGPA: 8.65/10 | SRM Institute of Science and Technology | 2023 - 2027

Class XII, CBSE | 75.6% | L K International School, Delhi | 2022

Class X, CBSE | 88.6% | L K International School, Delhi | 2020

EXPERIENCE

InAmigos Foundation

Jan 2026 - May 2026

Data Engineering Intern

- Automated manual inventory workflows, saving the team 10+ hours of repetitive work per week.
- Owned an AI-powered inventory system end to end, from users' needs to deployment; query accuracy up 40%.
- Developed REST APIs in Python and Flask that kept the tool usable for 500+ daily users at 99.9% uptime.
- Optimised SQL queries and data pipelines, reaching sub-200ms responses.

TrizenAI

Jan 2026 - Mar 2026

AI Engineering Intern

- Contributed to AI software development at TrizenAI, from requirement analysis to working features.
- Prototyped, debugged and tested LLM-based features in Python, collaborating with the engineering team.
- Evaluated my work with labelled test cases and measured accuracy, the practice from my projects.

PROJECTS

Drug Safety LLM Fine-Tuning (Healthcare) | Python, PyTorch, LoRA, openFDA

[GitHub](#) | [Live Demo](#)

- Fine-tuned a 0.5B LLM with LoRA (0.22% of weights) to find adverse drug events in medical case reports.
- Reached 81.7% F1 vs 71.2% for a 6x larger prompted model and 72.2% for a classical baseline.
- Validated on 20.7M FDA adverse event reports: 54% of pairs were signals vs 27% by chance; live checker.

Call Quality Judge: Responsible AI Reviewer | Python, LLMs, SQL

[GitHub](#) | [Live Demo](#)

- Created an LLM-as-judge that reviews call transcripts on 6 compliance and quality checks.
- Compared 5 prompt designs: rules plus focused LLM prompts reached 86% F1 vs 18% for one prompt.
- Added an evidence check that drops unverifiable flags; SQL insights on 154 real calls; 9 tests.

Smart Meeting Assistant Agent | Python, LLM APIs, Linear, Slack

[GitHub](#) | [Live Page](#)

- Integrated AI into a team workflow: notes become Linear tasks and a Slack recap via their APIs.
- Debugged unreliable LLM date maths by moving it into a tool the agent calls; JSON output validated.
- Scored 85% action-item F1; deadline accuracy rose from 34-48% to 83-97%; 47 automated tests.

Turbofan Predictive Maintenance | Python, scikit-learn, pandas

[GitHub](#) | [Live Demo](#)

- Predicted engines' remaining useful life from 14 sensors (NASA C-MAPSS); a live dashboard ranks repairs.
- Engineered rolling and drift features with leakage tests: 35% lower test error than raw sensors.
- Raised alerts for 22 of 25 engines near failure (88% recall) with no false alarms; 8 tests in CI.

TECHNICAL SKILLS

- Languages:** Python, Java, SQL, C, C++, JavaScript, .NET
- AI & ML:** Artificial intelligence, machine learning, Large Language Models (LLMs), LoRA fine-tuning, RAG
- AI engineering:** Prompt engineering, AI agents, PyTorch, scikit-learn, model deployment, automation
- Responsible AI:** Compliant AI use, evaluation sets, guardrails, evidence checks, hallucination control
- Cloud & DevOps:** AWS, Azure, GCP, Docker, Git, GitHub, continuous delivery (GitHub Actions CI/CD)
- APIs & frameworks:** REST APIs, FastAPI, Flask, scalable services, SQL analytics, dashboards
- Agile & teamwork:** Scrum, Kanban, Jira, unit testing, technical documentation, communication

CERTIFICATIONS & ACHIEVEMENTS

- Azure AI Fundamentals (AI-900), Microsoft
- AWS Certified Developer - Associate
- OCI Generative AI Professional, Oracle (2026)
- Databricks Generative AI Fundamentals
- Oracle Certified Professional: MySQL 8.0
- Power BI Data Analyst (PL-300), Microsoft
- Google Data Analytics Certificate
- Codefest Hackathon (SRM IST): 2nd Place