Kavyansh Sharma

B.Tech Computer Science & Engineering

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Professional Summary

B.Tech CSE graduate (AKTU, May 2026) skilled in Python, SQL, Machine Learning, and Computer Vision. Built and deployed ML, LLM, and web projects, completed an AI/ML internship with Google for Developers, and have experience building with AI coding agents and reviewing AI-generated code. Seeking an entry-level Data Science / AI-ML role.

Technical Skills

Languages	Python, SQL
Data & ML	Pandas, NumPy, Scikit-Learn, TensorFlow, Machine Learning, Deep Learning, Data Preprocessing
Generative AI & LLMs	LLM Serving, LoRA/QLoRA Fine-Tuning (Unsloth), Quantization
AI-Assisted Development	AI Coding Agents, AI-Generated Code Review, Prompt Engineering, Debugging
Deployment & Backend	Django, FastAPI, OAuth, SMTP, Twilio API, Git/GitHub
Databases & Cloud	PostgreSQL, MySQL, Supabase, Redis, Google Cloud

Work Experience

Google for Developers — India Education Program – AI/ML Virtual Intern – Remote Jul 2025 – Sep 2025

- Engineered and evaluated end-to-end machine learning pipelines using TensorFlow and Scikit-Learn, with an emphasis on reproducibility, interpretability, and output quality assessment
- Architected modular data preprocessing pipelines, reducing training cycle time and improving iteration speed
- Benchmarked model outputs for accuracy and reliability, applying GPU-accelerated computation to AI workloads

Projects

CrashGuard — Real-Time Vehicle Crash Detection System ↗

Python, TensorFlow, Object Detection API, OpenCV, Tkinter, Twilio, SMTP

- Built a desktop computer vision application that detects vehicle crash events from live webcam feeds and offline video files using a TensorFlow SavedModel with the Object Detection API
- Implemented real-time inference and automatic incident archiving (annotated frame, cropped detection image, evidence video) with a structured JSONL incident history and a built-in records viewer
- Developed an automated alert pipeline delivering email notifications via SMTP and SMS notifications via the Twilio API when a crash is detected

Self-Hosted LLM Serving & Coding Agent — DeepSeek Coder on Colab ↗

Python, FastAPI, Hugging Face Transformers, bitsandbytes, Cloudflare Tunnel

- Deployed DeepSeek Coder 6.7B Instruct (4-bit) on a free Colab T4 behind a FastAPI endpoint exposed via Cloudflare Tunnel, and connected it to an open-source AI coding-agent harness in VS Code
- Designed a model-agnostic setup where any open-source model that fits in GPU memory can be swapped in, with full visibility into every prompt, response, latency, and estimated token count
- Tested agent-generated code and tool calls, and analysed end-to-end bottlenecks (Colab session limits, tunnel latency, 6.7B reasoning limits, context management and error recovery) to show that agent quality depends on the harness, tools, and infrastructure, not just the model

Verses1 — Automated Code Quality Evaluation Platform ↗

Python, Django, PostgreSQL, Supabase, AST Analysis, OAuth

- Designed, built, and sole-deployed a live platform that benchmarks code submissions for quality and efficiency
- Built an AST-based analysis engine for Big-O complexity, Halstead metrics, and security patterns; curated a 68-problem bank with hidden test cases
- Integrated Supabase/PostgreSQL with Google OAuth to store user activity and evaluation history for tracking performance over time

Education

Hindustan College of Science & Technology Aug 2022 – Jun 2026

B.Tech in Computer Science & Engineering Mathura, India

Affiliation: Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow

Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Compiler Design, OOP

Awards, Leadership & Certifications

- Stood 2nd in College Tech Fest Coding Competition (Data Structures); ACOT Member: led technical mentorship and coding workshops for junior students
- HackerRank Python Basic & Software Engineer Certificates; AMD AI Developer Program: AI Hardware & Systems (NPU/GPU, Tensor Operations, Local AI Inference)