TANU SAINI

B.Tech CSE (AI & ML) · Full-Stack & AI Developer · Open Source Contributor
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SUMMARY

Second-year AI & ML student who builds full-stack web apps and RAG-based AI tools, with 5 merged open source PRs and 175+ LeetCode problems in C++. Seeking a Software Engineering / Full-Stack internship.

EDUCATION

Mirai School of Technology (AKTU) 2025 – 2029
B.Tech in Computer Science & Engineering (AI & ML) – CGPA: 7.49 Ghaziabad, Delhi NCR

SBVM School, Hapur (CBSE) – Class XII: 82.04% · Class X: 89.04% 2023 – 2025

TECHNICAL SKILLS

Languages: C++, JavaScript, TypeScript, Python, Java, C
Frontend: React, Next.js, Tailwind CSS, Three.js / React Three Fiber, Framer Motion, HTML, CSS
Backend & Database: Node.js, Express.js, FastAPI, REST APIs, MongoDB (Mongoose)
AI / ML: RAG, LangChain, ChromaDB, Embeddings, Gemini API, Claude API, Pandas, NumPy
Tools & Cloud: Git, GitHub, GitHub Actions, Vercel, Postman, Linux, Kubernetes (basics)
Core CS: Data Structures & Algorithms (Trees, Graphs, Recursion, Dynamic Programming), OOP

PROJECTS

PaperPulse – AI Exam Paper Analyzer | React, Node.js, Express, MongoDB, Claude API · Code Nov 2026 – Present

- Built a full-stack app that finds repeating topics in past AKTU papers and ranks topics for the next exam as High, Medium or Low, with a reason for each.
- Designed a **backtesting** engine that predicts a chosen year using only older papers and reports precision, recall and a random-guess baseline.
- Used the Claude API to tag questions by marks, unit and topic, with a keyword fallback and unit tests.

SHUNYA – 3D Multiverse Puzzle-Adventure Game | Godot 4, GDScript, C++ (raylib) Nov 2026 – Present

- Building a 3D game where the player travels across alternate universes and dimensions (1D to 7D), each with its own puzzles.
- Prototyped the first version in C++ on a raylib-based 2D engine, then rebuilt it in real 3D with Godot 4.

LeaveDesk – Employee Leave Management System | MERN, JWT, bcrypt · Code | Live Oct 2026

- Built a MERN app where employees apply for leave and admins approve or reject it, with **role-based access** using JWT and bcrypt.
- Enforced backend rules (no overlapping leaves, yearly quotas); deployed on Vercel and Render.

Micro World RAG – PDF Chatbot | Next.js, TypeScript, FastAPI, LangChain, Chroma, Gemini · Code Nov 2026

- Built a RAG chatbot that answers only from an uploaded PDF, with page citations and source snippets, and says so when the answer is not in the file.
- Added follow-up question rewriting, a live pipeline tracker (load, clean, chunk, embed, store) and a scroll-driven animated intro.

OPEN SOURCE

stdlib-js/stdlib | JavaScript standard library for numerical and scientific computing Nov 2026 – Present

- Got **5 PRs merged** improving docs and doctests for ndarray and math packages (#16861, #16905).
- Actively contributing, and preparing for LFX Mentorship 2027 with CNCF's Headlamp (Kubernetes UI).

ACHIEVEMENTS & LEADERSHIP

- **InOut Hacks 2026 – Finalist**: reached the final round as one of the top 15 teams out of 1,300+ registrations.
- **Google BigCode 2026** – Ranked in the Top 15,000 among college students across India.
- Solved **175+ problems on LeetCode** in C++ (arrays, recursion, trees, graphs).
- **Team Lead, Fork&Spoon** – Lead a 4-member college team with weekly goals for PRs and hackathons.