Daksh Srivastava

Full-stack Developer & CS Undergraduate · AI-Powered Applications · DevSecOps · Geospatial Intelligence

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TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks	React 19, Next.js, Node.js, Express.js, FastAPI, Tailwind CSS, Three.js
AI / ML	Google Gemini API, OpenAI API, XGBoost, LLM Integration, Prompt Engineering
Cloud & DevOps	Firebase, Google Earth Engine, Docker, Celery, Redis, Vercel
Databases	PostgreSQL, PostGIS, MongoDB, MySQL, Firebase Realtime Database

EDUCATION

ITM Skills University — Navi Mumbai, India 2025 – 2029

B.Tech, Computer Science Engineering (Full Stack & AI/ML) · Expected Dec 2029

Sem 1 SGPA: **9.3** · Sem 2 SGPA: **9.83** · CGPA: **9.57**

Maharashtra State Board (MSBSHSE) Completed March 2025

Higher Secondary Certificate (HSC) — Science Stream

PROJECTS

Sonaura 2.0 — Browser Audio DSP Extension 2025

Web Audio API · Chrome Extension (Manifest V3) · JavaScript · HTML5 Canvas

■ *Officially launched on the Microsoft Edge Add-ons Store*

- Built a client-side audio processing pipeline as a browser extension that intercepts live tab audio and delivers cinema-quality 3D acoustics through any headphones — no drivers, no subscriptions, one click.
- Engineered a full DSP chain: HRTF-based virtualized 5.1 surround sound (6-channel matrix with Haas-effect delays), 10-band parametric EQ with auto room-calibration via FFT analysis, convolution reverb (synthetic + custom IR upload), asymmetric subharmonic exciter, and a brickwall limiter (-1 dB, 20:1 ratio).
- Shipped 5 built-in presets (Cinema, Action Boost, Dialogue Clarity, Night Mode, Bypass), a real-time 48-bar spectrum visualizer at 25 FPS, and a hand-drawn ink-on-paper UI with persistent light/dark theming.

AQUILA — Climate Intelligence Engine 2025

FastAPI · Google Earth Engine · React 19 · Three.js · XGBoost · PostgreSQL/PostGIS · Docker

- Built production-grade geospatial flood detection platform processing Sentinel-1 SAR and Sentinel-2 imagery via Google Earth Engine for any city globally; applied adaptive Otsu thresholding with physics-based false-positive correction (COPERNICUS DEM, HAND drainage masking, JRC tidal correction).
- Architected decoupled full-stack system — async FastAPI backend and React 19 + Three.js 3D globe frontend with 8 toggleable GeoJSON layers; integrated XGBoost 5-day flood forecaster and Dockerized multi-service stack (Celery, Redis, PostGIS).

GitHub Guardian — DevSecOps Security Auditing Platform 2025

FastAPI · React · Python · GitHub OAuth · OpenAI API · JWT

- Built forensic security platform combining SAST with Git DAG traversal to expose API keys, SSL certificates, SQL injection, and XSS vulnerabilities across current and deleted commits; non-linear scoring reduces false-positive noise.
- Shipped GitHub OAuth 2.0 with JWT sessions, AI Architectural Reviewer (OpenAI/Gemini) with Jupyter Notebook support, and one-click Desktop Wizard with auto-generated .gitignore; deployed at github-guardian.vercel.app.

HyperMind — Adaptive AI Learning Companion 2025

React 19 · TypeScript · Google Gemini 2.5 API · Tailwind CSS · Recharts · ReactFlow · Vite

- Built adaptive AI education platform on Gemini 2.5 Flash/Pro with Concept Tutor, Debate Mode, and Quiz Generator (10-question MCQs with AI result analysis); multimodal input — image vision, PDF parsing, Text-to-Speech.
- Engineered Generative UI rendering dynamic Recharts charts and ReactFlow mind maps/flowcharts; integrated Gemini Live for real-time voice/video sessions; deployed at hypermind-official.vercel.app.

EXPERIENCE

AI Engineer Intern — Sahajta AI

India (Remote)

Google Student Ambassador — Google 2025 – Present

India

- Lead Google Cloud, Workspace, and AI/ML developer workshops on campus; bridge Google programs (GDSC, Career Certificates) with the university ecosystem to drive technical community growth and developer upskilling.

Student Ambassador — LetsUpgrade Sep 2025 – Dec 2025

India (Remote)

- Organised workshops, webinars, and coding events for university students; strengthened program reach through cross-functional collaboration, event coordination, and community management.

ACHIEVEMENTS & LEADERSHIP

- **Hack Day Winner — Hacktoberfest x MLH:** Won Hack Day organised by Hacktoberfest and MLH at Sardar Patel Institute of Technology; received an Arduino UNO Q as the prize.
- **Top 3 — 100x Applied AI Open Capstone Series:** Ranked in the top 3 out of all participants; awarded a 25% merit scholarship to the 100x Applied AI Cohort in recognition of outstanding project work across the series.
- **Hackathon Finalist (2024–2025):** Finalist in national hackathon demonstrating innovation in full-stack and AI development under competitive, time-pressured conditions.
- **Rapid Self-Learning:** Independently mastered Google Earth Engine, Gemini Live real-time streaming, and DevSecOps tooling — each applied in production-deployed projects.