Sanjai G



AI & Data Science Engineer | Full-Stack Systems | Autonomous AI Agents
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SUMMARY

Second-year B.Tech AI & Data Science student (CGPA 9.0/10) who designs, builds and deploys production-style AI and full-stack systems end to end: multi-agent LLM pipelines, ML-serving APIs, blockchain-backed forensics and accessible multilingual web apps, all with automated tests and CI. Freelance engineer since 2024 with multiple hackathon entries and open-source commits. Seeking SWE / AI-ML / data internships at scale.

EDUCATION

B.Tech, Artificial Intelligence & Data Science — *Sri Krishna College of Engineering and Technology (SKCET), Coimbatore* 2025 – 2029
CGPA 9.0/10 (2nd year) | Coursework: Data Structures, Algorithms, Machine Learning, OOP (C++)

EXPERIENCE

Freelance Full-Stack & AI Systems Developer — *Self-employed* 2024 – Present

- Built and launched client platforms, portals and commerce sites with responsive UX and SEO, reaching **95+ Lighthouse scores**.
- Integrated LLM agents and REST backends using **FastAPI, Express and Supabase**; implemented authentication, data schemas and CI/CD deployments on Vercel and Render.

Data Science Intern (selected) — *Thiranex, remote, project-based* May 2026

PROJECTS

VASAW AI — *agentic local-business automation (Next.js, TypeScript, Supabase)* github.com/Sanjai-Gopal/vasaw-ai

- Built a 6-agent orchestrated pipeline: business discovery → lead qualification (Gemini) → storage → website generation → Vercel deployment → WhatsApp outreach.
- Backed by **220+ unit/integration tests** (Vitest) and Playwright checks across 4 viewport sizes.

CareNest AI — *elderly care & medication platform, PromptWars × Catalyst (solo)* catalyst-hackathon-lime.vercel.app

- 7-language UI with voice commands, Gemini medication-interaction check, prescription OCR parsing and 1-tap emergency SOS routing; deployed on Vercel.
- Moved Gemini/Resend keys behind authenticated, rate-limited serverless APIs; added CSP, CI (lint, typecheck, coverage, build) and **128 passing tests**.

AQI24 — *India air-quality intelligence (React, FastAPI, scikit-learn, LightGBM, Docker; team)* aqi-24.vercel.app

- Built the FastAPI ML service serving **4 models** (temperature, dew point, fire, near-real-time fire) with API-key auth, rate limiting and security headers; implemented Google OAuth (PKCE) in the frontend.

SIH 2026 Email Threat Intelligence — *Team Dino Coders (6 members), PS 261016* github.com/Sanjai-Gopal/SIH26106

- Built the FastAPI forensic backend (header/relay parsing, IOC extraction, risk engine, IP/domain intelligence, case management) and a **SHA-256 evidence-integrity layer** with a Solidity registry for Polygon Amoy testnet chain-of-custody; **34/34 contract tests** passing.

NovaPulse AI — *observability SaaS (Supabase, Razorpay)* github.com/Sanjai-Gopal/novapulse-saas

- Multi-tenant workspaces with Supabase Auth (email + Google) and PostgreSQL row-level security; Razorpay payments with server-side HMAC-SHA256 signature verification; live trace and alert dashboard.

Additional: BIS Consumer Safety Portal (Streamlit, NLP claim checker; BIS Project Contest shortlist) • RuralCare AI (rural-health screening, team) • THE FEED (interactive algorithm lab, THRIVE 2026) • personal portfolio and freelance sites.

OPEN-SOURCE CONTRIBUTIONS

- **Dimsee** (MERN auth package, 16 commits): separate JWT access/refresh secrets, token rotation on password change, stronger password policy, schema indexes, API/threat-model docs.
- **Forge** (Next.js, 23 commits): rate limiter with bounded LRU eviction, CSP/security headers, WAI-ARIA keyboard navigation. **Sahay** (7 commits): WCAG AA accessibility, SOS dispatch, speech input, API validation.
- **HackHub** (Next.js, Express, MongoDB hackathon platform): 5 feature commits integrated into upstream main — real-time team chat, task assignment and validation, mentor discovery and matching; also built an AI teammate matchmaker and a responsive mobile navigation overhaul.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, C++, HTML, CSS, Solidity
AI / Data: Agentic AI, LLM / Gemini API integration, prompt engineering, scikit-learn, LightGBM, Pandas, NumPy, NLP
Web / Backend: Next.js, React, Tailwind CSS, Node.js, Express, FastAPI, Flask, REST APIs, PostgreSQL, Supabase, MongoDB, JWT auth
Tools: Git, GitHub Actions (CI), Docker, Vercel, Render, Vitest, Playwright, Hardhat

HACKATHONS, AWARDS & CERTIFICATIONS

Hackathons: BIS Project Contest — shortlisted; participant in ISRO Bharatiya Antariksh Hackathon 2026, HackZen '26, PromptWars × Catalyst, SIH 2026, THRIVE 2026 and a Startup Hackathon.
Certifications: Google AI Professional Certificate; Google Data Analytics Professional Certificate; DeepLearning.AI — Neural Networks & Deep Learning, Structuring ML Projects; NPTEL (IIT Madras) Python for Data Science — Elite (70%); Saylor CS205 Building with AI (92.16%); IBM Git & GitHub; University of Michigan Python.