VIKHYATH M

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SUMMARY

3rd-year Computer Science (AI & ML) student and freelance developer for 6 clients. Trained and validated an ML model on 821,915 national survey records with held-out-state testing, and built an open-source agent tool that cut LLM context by ~95%. Seeking Software Engineer, AI/ML or Full-Stack internships.

EDUCATION

Sai Vidya Institute of Technology (VTU), Bengaluru | 2024 – 2028
B.E. Computer Science & Engineering (AI & ML) | CGPA: 7.5 | Coursework: DSA, DBMS, Operating Systems, Computer Networks, Machine Learning, Deep Learning
Arvind PU College, Bengaluru – PUC: 89% (2024) | Embassy Public School, Bengaluru – ICSE: 79% (2022)

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, SQL
AI / ML: scikit-learn, XGBoost, SHAP, LLM APIs (Gemini, Groq), Ollama (local LLMs), RAG, voice agents (STT/TTS), prompt-injection guardrails
Web & Backend: React, Next.js, Node.js, Express, FastAPI, REST APIs, Tailwind CSS
Data & Cloud: PostgreSQL, Supabase (Auth, RLS, Realtime, Storage), Cloudflare Workers, Vercel, Render
Testing & DevOps: pytest, Vitest, Playwright, GitHub Actions CI, Git | **Integrations:** Razorpay, Cashfree, Shiprocket, Resend

EXPERIENCE

Freelance Full-Stack & AI Developer – 6 clients | 2024 – Present | *buildwithvikhyath.in*

- **JAVALI (clothing brand, Bengaluru):** Built the online store, in-shop point of sale and back office as one Next.js 15 app on Cloudflare Workers and Supabase, so online and in-store sales run from a single system.
- **JAVALI:** Automated payments (Razorpay with Cashfree failover, so one gateway outage cannot stop checkout), shipping (Shiprocket) and every order email (Resend); 93 test files and CI that fails the build on any un-rate-limited API route, SQL built from user input or committed secret.
- **AuricVista AI assistant** (auricvistachatbot-psi.vercel.app): Built a 3-tier chatbot: rules answer greetings and off-topic queries in <5 ms with zero API cost, Gemini answers grounded questions under a 3.5 s circuit breaker, and a local knowledge engine answers on timeout or outage; injection and jailbreak prompts are blocked before the model. Removed a 50–70 s cold start with health checks and keep-alive.
- **Dental clinic AI receptionist:** Voice agent (speech-to-text, LLM, text-to-speech) that answers the clinic phone, handles routine questions and books, moves or cancels appointments directly in the clinic calendar via API.
- **AI story-to-video platform:** Mobile-first web app that turns a story prompt into a captioned short video in 11 Indian languages; built a role-based staff panel (admin vs support) with credentials held as Cloudflare secrets.
- **Cadva** (wedding card print website) and **Solvaro** (AI and automation agency website, solvaro-kappa.vercel.app).

PROJECTS

HeartWise – ML Heart-Disease Prediction Model | 2026 | *Python, XGBoost, scikit-learn, FastAPI, React* | *github.com/Vikhyath-thelazycoder/HeartWise*

- Trained logistic regression, random forest and XGBoost on **821,915 NFHS-5 records**; chose logistic regression by a pre-registered rule (simplest model within 1% of the best cross-validated log loss). Scored **ROC-AUC 0.727 (95% CI 0.704–0.750)** on an untouched 82k-row test set vs 0.50 baseline, and 0.733 on held-out states.
- Served calibrated predictions (**ECE 0.0007**) with SHAP explanations via FastAPI at **p95 12 ms**; reproducible pipeline from raw survey data to model card, with security, dependency-audit and reproducibility release checks.

AgyLite – Open-Source Engineering OS for AI Coding Agents | 2026 | *Python, CLI* | *github.com/Vikhyath-thelazycoder/AgyLite*

- Cut per-turn LLM context from **~32,000 to ~1,700 tokens (~95%)** by replacing model-picked plugins with a deterministic rule router: **26/26 scenarios** routed correctly at **p95 0.46 ms**; per-task guidance 51.6% smaller.
- Integrates 15 open-source agent projects into one plugin and CLI for 4 hosts (Claude Code, Codex, Cursor, Antigravity); work counts as done only when tests, types and build pass.

Techie Mind – On-Device Browser Agent | 2026 | *Smart India Hackathon 2026 (ISRO, SIH26171)* | *TypeScript, Ollama, Qwen 2.5-VL* | *github.com/Vikhyath-thelazycoder/Techie-Mind-browsing-agent*

- Privacy-first agent that completes web tasks from English or Kannada text and voice; **0 bytes** of page content leave the device.
- Tiered routing: rules first, then a **~34 ms** local model, and a 7B vision model only when the router is unsure; **491+ unit tests, 58/58 real-Chrome tests, 34/35 live websites** passing.

Campus Event Platforms – 4 Live Apps | 2025 – 2026 | *Next.js, Supabase Realtime, Gemini* | *artifex-zeta-five.vercel.app*

- ARTIFEX: server-timed design contest with Gemini judging and row-level security on every table, load-tested with a 20-bot full event; plus Crypto Hunt, AI Musical Chair and Fake It Till You Make It for college fests.

ACHIEVEMENTS

- **Hackathons:** Smart India Hackathon 2026 (ISRO, SIH26171) | HackFest 2026, GreenTech track – SuryaDoctor, AI solar advisor (Gemini reads inverter photos, pvlib computes energy) | REVA National Hackathon 2024, 24-hour build.