

Jatin Vats

AI Application Developer · GenAI · LLM Agents & Evals · Voice AI · Full-Stack · Delhi NCR / Remote

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I ship LLM products end to end: agents with tool calling and structured outputs, guardrails against unsafe actions and prompt injection, LLM-judge evals that gate CI, latency tracing, and the full-stack app around them (TypeScript, Node.js, Next.js, PostgreSQL, AWS). 2× hackathon winner (1st of 1,500+ teams, Agora EchoSphere). Seeking AI Engineer / GenAI roles.

PROJECTS

VaaniDesk – AI voice receptionist for Indian SMBs

[Code](#)

TypeScript, Fastify, Next.js, PostgreSQL (Drizzle), Redis, BullMQ, Gemini / Claude, Deepgram, ElevenLabs, OpenTelemetry

- Built a streaming STT → LLM (tool calling) → TTS pipeline over WebSockets for Hindi / Hinglish / English booking calls that checks real availability; provider-agnostic (Gemini / Claude adapters).
- Guardrails: prices and slots come only from database tool results, and a booking is spoken as confirmed only after the booking tool succeeds; tool inputs validated with Zod schemas.
- 30-scenario LLM-judge eval suite wired as a CI gate; per-turn latency traced with OpenTelemetry against real Deepgram, Gemini and ElevenLabs (1.3–1.5 s/turn; TTS ~0.25 s); 190+ unit, integration and Playwright tests.

Pillion – Voice AI co-pilot for delivery riders (**1st place, Agora Voice AI Hackathon 2026; solo**)

[Code](#) · [Demo](#)

Kotlin, Jetpack Compose, Node.js, Agora Conversational AI / RTC / RTM, Sarvam STT & TTS, gpt-4o-mini, ML Kit

- Hands-free Hindi / Hinglish voice agent (Android + Node.js; 1st of 31 projects) with 9 LLM tools (drop ETA, nearby places, earnings, calls and SMS with spoken confirmation, SOS) on real GPS and map data; 19 of 20 real calls handled.
- Measured ASR / LLM / TTS latency per turn, traced a 24–37 s LLM first token to the provider and switched models (~1 s); tuned VAD, turn detection and barge-in for road noise.

Bahi – AI operator agent for small businesses

[Code](#)

TypeScript, Next.js, Vercel AI SDK, Gemini, Groq, Zod

- Agent loop (max 12 steps) over 13 tools across PayPal, Gmail, Slack, Notion and Jira; Gemini with a Groq fallback.
- Code guardrails between the model and money: amounts checked against the owner's words, invoices over ₹50,000 held for approval, emails fenced as untrusted input against prompt injection; audited tool calls; 266 unit tests.

DebugMind – Autonomous debugging agent

[Code](#)

Node.js, Gemini function calling, AST analysis (acorn), sandboxed execution

- Fixes failing tests under an enforced protocol (verified hypothesis before any edit, sandboxed probes, full-suite re-runs, forced reverts): 12/12 bugs fixed vs 11/12 without the guardrails (12-bug benchmark); every step traced.

Also: LLM Battle Arena (LangGraph: Mistral and Cohere in parallel, Gemini judge with Zod-validated scores) · WatchTower (uptime monitoring with AI incident summaries via LangChain + Mistral; Best Pitch, team lead of 4) · Aveniq (MERN marketplace with Razorpay, 71 integration tests).

EXPERIENCE

WavyGo Mobility Services

May 2026 – Present

Technology & Product Intern

Remote, India

- Prototyping AI agents that automate internal operations workflows on top of the company's ERP data.
- Handle the backend for internal services (REST APIs, databases, deployment, hosting) and the ERP that runs the two-wheeler rental business; worked on containerised ERP deployment (Docker, AWS, Kubernetes).
- Audited the production site (39/100 Lighthouse) and re-architected it in React, TypeScript and Vite with a typed data layer.

ACHIEVEMENTS

- 1st place, Agora EchoSphere 2026** (finale at Microsoft, Gurugram) out of 6,000+ participants and 1,500+ teams; \$1,100 prize. Team of 3 on EasyEV (voice-first EV assistant): built the voice consultation, AI-to-human handoff and test-ride booking.
- 1st place, Agora Voice AI Hackathon 2026** by AI Mobile Coders (Pillion, solo) · **Best Pitch, Sheryians Coding School Hackathon** (WatchTower, team lead).

SKILLS

AI & LLMs: LLM APIs (OpenAI, Claude, Gemini, Groq, Mistral), AI agents, tool / function calling, structured outputs (Zod), prompt engineering, guardrails, evals (LLM-as-judge), LangChain, LangGraph, Vercel AI SDK, voice AI (STT, TTS, VAD)

Languages: TypeScript, JavaScript, Python, Kotlin, SQL · **Web:** Node.js, Express, Fastify, Next.js, React, REST, WebSockets

Data & Ops: PostgreSQL, MongoDB, Redis, Docker, AWS, Kubernetes, Git, GitHub Actions CI/CD, OpenTelemetry · **Testing:** Vitest, Jest, Playwright

EDUCATION

Ideal Institute of Management & Technology, GGSIPU

2023 – 2026

Bachelor of Computer Applications (BCA) · CGPA 7.5/10

Delhi, India