

VIDHAAN KHARE

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EDUCATION

Thapar Institute of Engineering and Technology

Bachelor of Engineering – Electrical and Computer Engineering

Patiala, Punjab

Expected May 2027

EXPERIENCE

Open Source Contributor

Apicurio Registry (Red Hat) • BOSS Console (RISA Labs) • kestra • cognee

Present

Remote

- **Apicurio Registry**: shipped **Windows support for the Registry CLI** (maintainer-assigned, #9229) as one GraalVM **native-image** executable with the login token in Windows Credential Manager, and **landed** a circuit breaker on the Kubernetes auth path (#8554) so one failing dependency no longer stalls every request.
- **2nd place, BOSS Open Source Hackathon 2026** (RISA Labs) with **20 merged PRs** in **BOSS Console**: workspace health reporting (**boss doctor**, a status-bar badge, an MCP tool agents can query), origin checks on deep links, a CLI command-injection fix, and Windows path bugs in search, run configs and the CLI – each with a regression test.
- **Merged** fixes into **kestra** (**27k***, one overloaded 409 split into 204/422) and **cognee** (**19k***, two SQLite writers deadlocking the agent memory store); reported **2** access-control holes with reproduction tests.

Humble Coders

May 2025 – July 2025

AI Engineering Intern

Remote

- Owned a fashion retail brand's AI shopping assistant end-to-end – LangChain agents with **RAG** over the catalog and return policy, served by FastAPI + React on **GCP**, grounding every answer in the brand's own rules and cutting support resolution time by **60%+**.
- Built an **MCP server** for a college course-discovery client, exposing live timetable, faculty-schedule and enrollment-slot APIs as agent tools; reused the pattern for **3** legal-document tools (risk scoring, clause extraction, contract Q&A).

PROJECTS

LegalEase – Citation-Grounded Legal RAG Platform | *Python, Flask, Gemini 2.5, InLegalBERT, ChromaDB, Cloud Run* | [Live demo](#) | [Code](#)

- Engineered **RAG** for a regulated domain over a **9,063-vector** corpus of Indian law – **1,791** statute sections and **7,168** Supreme Court passages, embedded with **InLegalBERT** – so every finding quotes a real statute, never model memory.
- Split each question across two searches, the contract and the law library, reserving results per source: otherwise 7k judgment chunks bury the one statute that answers the question.
- Read scanned contracts through Gemini Vision OCR, scored risk **0–10**, and chose the vector store on measurements (**ChromaDB vs Qdrant**, 5 runs, 28 queries).

VibeGuard – Security Audit CLI + OpenClaw Skill for AI-Generated Code | *Node.js, Gemini, npm, OpenClaw* | [Live demo](#)

- Released a one-command scanner on npm (`npx @vidhaankhare/vibeguard scan .`) – **35** pattern rules for leaked keys, injection and endpoints with no auth check, backed by **65** tests.
- Added checks for the mistakes only AI-written code makes: user text pasted into a system prompt, model output handed to `eval` or a shell; only the riskiest files reach **Gemini** for a second read.
- Treated the reviewing model as untrusted (findings naming files that do not exist are discarded) and packaged the scanner as an **OpenClaw agent skill**: an agent audits code just written, reads the **0–100** score, fixes and re-scans.

KisanSetu – AI Agronomy Helpline over Voice, SMS and Web | *Next.js, Python, Gemini Live, LiveKit, SIP, Cloud Run* | [Live demo](#)

- Launched an **AI phone line** for farmers with no smartphone – a real Indian number answered in **~4.7 s** by **Gemini Live** over a **SIP** trunk, taking the caller's language from the opening sentence.
- Identified returning farmers by phone number and allowed interruptions mid-answer without talking over a pause; approval callbacks hold the line until the last word reaches the handset.
- Created a live **SMS gateway** (TextBee) for dry-spell alerts, plus a **3-agent Gemini** crop-plan generator reading 9 Soil Health Card fields and district weather data.

ACHIEVEMENTS

- **National Winner**, [Smart India Hackathon 2025](#) – India's largest student hackathon; won among **10,000+** teams.
- **Selected**, **Amazon ML Summer School 2026** – Amazon India's competitive ML program taught by Amazon scientists.
- **National Finalist**, [Google Cloud Agentic AI Day 2025](#) – **Top 75** of 9,100+ teams in a 30-hour agentic-AI sprint.
- **International Winner**, [Ulster University Agentic AI Hackathon](#) – multi-agent legal AI on GCP, beating global university teams.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL, C++

AI & Agents: AI Agents, Multi-Agent Systems, RAG, MCP, Agent Skills, LangChain, LangGraph, Google ADK, Gemini / Gemini Live, Vector DBs (ChromaDB, Qdrant)

Cloud & System Design: GCP (Cloud Run, Vertex AI, Firestore), Docker, System Design, REST APIs, FastAPI, Flask, Node.js, React

Engineering Practice: JVM (Quarkus, GraalVM **native-image**, JNA), Kotlin, Gradle, GitHub Actions CI, cross-platform debugging

LEADERSHIP & EXTRACURRICULAR

- **Vice-President**, **SUR-TIET (TIET Music Society)** – selected from **1,500+** applicants; leading 20+ members across 15+ events.