

# HARSH AGRAWAL

AI / Agentic Systems Builder · Physical-AI Founder · 3x Hackathon Winner

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Student developer who builds and ships **real agentic-AI systems** — multi-agent automations, computer-vision security, voice interfaces, MCP servers, and a Physical-AI data platform — **20+ shipped in 2026**, most of them end-to-end and solo. **3x hackathon winner (including a \$5,000 win)**; three startup internships — currently building agentic workflow systems at **C3A Labs**, after drone autonomy and healthcare AI during Class 12. I learn fastest by building, breaking things, and shipping.

## EXPERIENCE

### AI Agent Engineering Intern · C3A Labs

2026 — Present

AI holding company building independent AI companies (KaraX.ai)

- Building **agentic workflow systems** — autonomous multi-step execution rather than assistance — for markets where AI can own an entire workflow end to end.

### AI Intern · FlytBase

2025

Enterprise drone autonomy platform · Pune

- Built a **real-time AI voice-translation tool** (speech-to-text → translation → text-to-speech) as a standalone product, to a near-complete working prototype.
- Improved SEO across FlytBase web content to grow organic reach.

### AI Research Intern · Klarvia

2025

IIT Madras-incubated healthcare AI startup

- Supported the research team in **training and evaluating** their healthcare AI model; contributed on the data & experimentation side.

## PROJECTS

### Jake — Personal Agent for College & the C3A Labs Internship

2026 · Daily driver

- Telegram agent that scrapes **Moodle** for deadlines and grades, mirrors the institute's *own* attendance figure rather than inventing a second one, and computes **what skipping a given lecture actually costs**. Hourly polling with escalating alerts, a 07:30 brief, launchd services, and a **confirm-before-acting gate**. [GitHub](#)

### RoboGym — the open data layer for Physical AI

2026 · Live

- A browser game where steering a robot arm through reach/sort/stack tasks **silently generates real, exportable robot-training data** (LeRobot format); plus an **in-browser imitation-learning policy** that replays your demos. [robogym.netlify.app](#) · [GitHub](#)

### AirSecure & Flying Police — AI security monitoring for industrial sites · 🏆 2 Hackathon Wins

2026

- AirSecure**: remote security for factories & warehouses — analyzes footage **frame-by-frame with a vision-language model (BLIP)**, fires **deterministic rule-based alerts**, pushes annotated alerts to **Telegram** + a **Q&A interface**. **Won LocalDev Codex Community Hackathon, Pune (\$5,000)**.
- Flying Police**: the **blockchain-integrated** version — tamper-proof **on-chain incident logging on Monad**. **Won Monad Blitz, Pune**. [Demo](#) · [GitHub](#)

### Khoya-Paya — Agentic Reunification System

Claude Impact Lab · 2026

- Agentic pipeline reuniting families at the Kumbh Mela (**80M+ pilgrims**): multilingual voice/text/vision intake → cross-lingual semantic matching → safety-verified coordination on **Claude Opus 4.8**; exposed as an **MCP server** with **Polygon**-anchored records. [GitHub](#)

### Prompt Wars — Multi-Agent LLM Arena

2026

- Live arena where LLM agents play a strategy game (trade, ally, attack, betray) with **reasoning streamed over server-sent events** and a **judge LLM** calling winners; provider-agnostic, Zod-validated actions. [GitHub](#)

### E.V. & F.R.I.D.A.Y — Voice Companion + Spatial Memory Interface

2026

- E.V.**: a voice companion in the macOS menu bar — clap twice or hold ⌘Space and she answers out loud in ~1.5s. Built around a **persistent four-dimensional mood** (valence, arousal, warmth, concern) that decays toward baseline and is nudged by real machine activity — her tone shifts before you mention it. [GitHub](#)
- F.R.I.D.A.Y.**: renders that memory as a **hand-tracked holographic orb** (Three.js + MediaPipe); **Claude Opus 5** answers over it and drives the visualisation as it speaks, lighting up whatever it describes. [GitHub](#)

### Guardian — AI Lifeguard · COEPIAN — Admissions Prediction Engine

2026

- Guardian**: multimodal drowning detection — **Gemini vision** on the pool feed, a predictive risk engine that escalates *before* an incident, an autonomous agentic **Incident Commander**, and Telegram alerts. [GitHub](#)
- COEPIAN**: reconstructs COEP Technological University's B.Planning admissions **entirely from the official published record** — allotment lists, vacancy notices and cut-off tables cross-checked into a prediction engine that **says so when the record can't answer**. [GitHub](#)

### Second Brain & Pulse — Local-First Knowledge Vault + Loop-Native Agent

2026

- Second Brain**: a knowledge vault built from what is *actually* on the machine (never demo data) — full-text search, staleness diagnostics, a **3D force-graph view** and a JARVIS voice layer. [GitHub](#) · **Pulse**: a from-scratch **loop-native** agent — a heartbeat that finds what matters, drafts the move, and has a **separate agent check its work**. No frameworks. [GitHub](#)

### Hermes — Multi-Agent Meeting Automation · HackMap — AI Hackathon Aggregator

2026

- Hermes**: multi-agent pipeline that turns a new meeting note into a summary, action items, transcript & scheduled follow-ups — fully in the background. **HackMap**: scrapes Devpost/Unstoppable, dedupes, and **ranks hackathons by fit using Claude** with cron digests. [GitHub](#)

## ACHIEVEMENTS & COMMUNITY

🏆 **LocalDev Codex Community Hackathon, Pune — Winner (\$5,000), 2026**. For *AirSecure*, an AI video-surveillance system for industrial security.

🏆 **Monad Blitz, Pune — Winner (\$100), 2026**. For *Flying Police*, the blockchain-integrated version with on-chain incident logging on Monad.

🏆 **ETHIndia — Hackathon Winner (\$550), 2022**. Built a working blockchain solution at Asia's largest Ethereum hackathon in 48 hours.

- "Projects With Harsh" — **Content Creator (2022–present)**. YouTube channel teaching Python, APIs, and Web3.

## SKILLS

**AI / LLM**: Claude (Anthropic) · OpenAI · Groq · Gemini · **Model Context Protocol (MCP)** · Multi-Agent Systems · Structured Output / Tool Use · Prompt Engineering · Agentic Platforms (LoopsHouse / Hermes)

**Computer Vision**: Vision-Language Models (BLIP) · Gemini Vision · Video Analysis · Object Detection · Hand Tracking (MediaPipe) · Real-time Alerting

**Voice / Interfaces**: Realtime STT & TTS · Wake-word & Acoustic Triggers · Affect / Mood Modelling · Three.js · HTML5 Canvas · Force-Directed Graphs

**Languages**: Python · TypeScript · JavaScript · SQL | **Web**: Next.js · React · Node.js · Express · Tailwind · React Native (Expo)

**Data / Infra / Tools**: Supabase · Convex · SQLite · Vercel · Netlify · Puppeteer · Playwright · Zod · Google Apps Script · Telegram Bots · Git & GitHub | **Web3**: Solidity · Polygon · Monad · ethers.js · IPFS

## EDUCATION

**Higher Secondary (Class 12), Science — Computer Science · PK International School**

2025

Focus: Computer Science, Mathematics, Physics