

AARTI PANCHAL

+91 86600 26907 | aartipanchal539@gmail.com | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

PES University

B.Tech, Artificial Intelligence & Machine Learning

2024 – 2028

Bengaluru, India

EXPERIENCE

Contributor, C4GT DMP 2026

Jun – Sep 2026

Piramal Swasthya (PSMRI), AMRIT health platform

Remote

- Single-handedly rebuilt India's national 104 health helpline: Angular 4 → 20, architecture to delivery, solo.
- **60 pull requests merged** across five upstream repositories — [Helpline104-UI-NEXT](#), [Common-UI](#), [MMU-UI](#), [HWC-UI](#), [Helpline1097-UI](#) — retiring **183** npm-audit vulnerabilities.
- Shipped **118 rebuilt components** and 7 role-based dashboards on ZardUI and Tailwind CSS v4, every one mentor- and CodeRabbit-reviewed before merge.

Product Engineer

Jun – Jul 2026

Inverix, workforce-data startup

Remote

- First engineer hired by Inverix's founders — shipped **three production products solo in one month**.
- Built the voice-AI endpoint running real outbound exit-interview calls; cut response latency to **under 1.4s**.
- Tore out a facade dashboard (**11 of 12 cards hardcoded**) and replaced it with a live Firestore-backed trust score.
- Shipped Inverix Attend end-to-end: Aadhaar-verified enrolment, on-device face check-in, **5 languages**. [Write-up](#).

Founder

Jan 2026 – Present

Khoj, campus lost-and-found

Bengaluru, India

- Founded, built and launched solo on Next.js, Supabase and TypeScript ([GitHub](#)); presented at NITK Incub8 to three validating investors.

PROJECTS

Eka | *Python, FastAPI, React, Qdrant, LightGBM, Groq (Qwen2.5-7B), Sarvam AI*

[Live](#) | [GitHub](#)

- Lifelong AI companion: four personas with semantic memory across sessions, ranked by a learned LightGBM model (**NDCG@3 0.9466**) instead of raw similarity, with voice in English, Hindi and Kannada.
- Trained and published **4 supervised models** on Hugging Face; publishes its own unflattering eval numbers (prompting scores 93% against gold's 94%, RAG drops it to 78%) rather than hiding them.

ARIA | *Python, LangGraph, Groq, Streamlit*

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- Autonomous research agent: grades its own output against a structured four-dimension critic, then replans only the weak steps.
- Researches across arXiv, Wikipedia, GitHub and the open web. **32 tests, green in CI**.

ACHIEVEMENTS

Cleared the C4GT DMP 2026 midterm evaluation; **60 pull requests merged** across five upstream PSMRI repositories.

LFX Mentorship Fall 2026 applicant, Apicurio Registry (CNCF) — **5 pull requests merged**, 12 issues filed upstream; decision pending.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, HTML/CSS

Frontend: Angular 20 (standalone, zoneless, signals), React 19, Next.js 15, Tailwind CSS v4, ZardUI

Backend: Node.js, Express, Fastify, FastAPI, REST APIs, SSE streaming, latency optimisation

AI and voice: LangGraph, Anthropic API, Gemini, Groq, Qdrant, Tavily, Sarvam AI, Twilio Media Streams

Data: PostgreSQL, Supabase, Firebase/Firestore, MongoDB, Redis

Tooling: Git, GitHub Actions, Docker, Maven, Vercel, Render, automated testing, offline-first PWAs

LEADERSHIP AND ACTIVITIES

- **NCC Air Wing** — Best Air Contingent across two national camps; **Quantum research, Quanaad Lab** — 2-qubit NMR quantum computer, [documented in full](#).
- **Competitions** — 2nd, all-women teams, 16-hour CTF (PESU ECC × Layer8); rank 113/200+, AWS AI League.