

GAURANG DHINGRA

Gurugram, India | +91 8750127570 | gdhingraggn@gmail.com

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

B.Tech AI student (NorthCap University) and co-founder of Nexai Labs. Built and shipped RealVerdict, a cryptographic food-verification platform, solo across backend, iOS, and web. Full-stack, AI/ML, and embedded-systems experience, including a granted German patent and a university-funded IoT research grant.

EDUCATION

The NorthCap University — B.Tech, Artificial Intelligence

Aug 2024 – Jun 2028

Relevant Coursework: IoT Fundamentals, Sensor Technologies, Database Management Systems

Blue Bells Model School — Class XII, CBSE (PCM)

Apr 2022 – Mar 2024

Result: 67.4%

Lord Jesus Public School — Class X, ICSE

Apr 2021 – Mar 2022

Result: 76.4%

TECHNICAL SKILLS

- **Languages:** Python, C/C++, Java, JavaScript
- **Cloud & Tools:** AWS IoT Core, LoRaWAN, Firebase, Docker, Git
- **Frameworks & Databases:** Flask, FastAPI, React, Node.js, Three.js, MongoDB, SQLite
- **Embedded & IoT:** ESP32, NodeMCU, Arduino Uno, Sensor Integration, PCB Prototyping

EXPERIENCE

Nexai Labs — Co-Founder

2026 – Present

Technology studio building full-stack, AI-integrated products end to end

- Co-founded a technology studio taking client and in-house products from concept to production.
- Built and lead engineering on RealVerdict, the studio's flagship live product (see Key Projects).
- Built Mera Parivar, an NGO donation & impact platform surfacing the partner NGO's on-the-ground outcomes across 7 states and 18 districts — reporting the NGO's reach of 2.5M+ children and 12.45M+ meals served to date — with verified 12A / 80G / e-CSR compliance for CSR partners.
- Shipped Health is Wealth Clinic for a Gurugram dietitian practice, and delivered a full-stack solution end-to-end for an international, Canada-based client under NDA — from requirements through deployment.
- Built ApexFlow, a mobile-first PWA habit tracker with offline support and an AI coaching layer, focused on sustained daily engagement.
- Core stack: React, Node.js, Firebase.

DxAi — Software Engineering Intern (Part-time, remote)

May 2026 – Aug 2026

- Contributed to core product development and AI integration across the stack.
- Focused on AI systems design, software architecture, and delivering scalable, production-ready code.

Ernst & Young (EY) — Intern, Strategy and Transactions

Jul 2025 – Aug 2025

- Supported a Debt and Special Situations engagement within the Lead Advisory function.
- Assisted with documentation, analysis, and team coordination; gained exposure to professional advisory workflows and corporate communication.

KEY PROJECTS

RealVerdict

Jan 2025 – Present

Flask · Ed25519 Cryptography · Encrypted DBs · AI Fraud Detection | realverdict.tech

- QR-based food verification platform combating supply-chain adulteration by exposing lab-signed reports to consumers instead of marketing claims.
- Multi-role platform serving consumers, farmers, labs, and inspectors, with NABL-accredited lab signatures and Ed25519 cryptographic verification per packet.

- Delivers a Real / Flagged / Counterfeit verdict in ~300ms; built and shipped solo across backend, iOS, and web.

Methane Gas Detection System — NorthCap University Research (₹50,000 Grant)

Apr 2025 – Present

NodeMCU ESP32 · AWS IoT Core · LoRaWAN

- IoT-enabled landfill gas monitoring system for real-time methane emission tracking, as part of a university-funded research initiative.
- Designed the hardware prototype and implemented cloud-connected real-time monitoring with alerting and local data logging.

Jarvis — Voice AI Assistant for macOS

Jan 2026 – May 2026

Python · FastAPI · React/Three.js · WebSockets · Groq API · faster-whisper · ElevenLabs · SQLite

- Engineered a low-latency voice pipeline — wake-word detection (Porcupine), local VAD, and Speech-to-Text (faster-whisper) — running at ~0% idle CPU by offloading LLM inference to the cloud.
- Implemented intent classification and conversational AI using Groq's low-latency LLM API, with an Anthropic Claude fallback for reliability.
- Built an action engine using AppleScript and shell automation to orchestrate developer workflows, e.g. voice-triggered multi-server project boot-up.

ADDITIONAL PROJECTS

ParkX — CPU-Optimised Computer Vision Stream Engine

Jun 2026 – Jul 2026

Python · YOLOv8 ONNX · OpenCV · Docker · CI/CD

- Real-time parking occupancy detection from video, reporting occupancy live in the browser.
- Dual-engine architecture (deep learning + classical CV fallback) so the system degrades gracefully without GPU; containerized with Docker and a CI pipeline.

SignSense — Real-Time ASL Translation App

Jun 2026 – Jul 2026

Python · MediaPipe Hands · Custom MLP · Flask

- Real-time web app translating ASL gestures into contextual text and speech, robust to lighting/background noise.
- Extracted 21D hand landmarks via MediaPipe and trained a custom geometric, scale-invariant MLP classifier for finger spelling.

RECOGNITION & ACHIEVEMENTS

- **German Patent (Gebrauchsmuster)** — Co-invented a wearable device for real-time location and health monitoring in disaster-response scenarios (Granted June 2026).
- **National Technology Day 2026 — 3rd Place, The NorthCap University** — built Retro Snake Classic, a themed reimaging of the classic Snake game, for "Advanced Technologies for Atmanirbhar Bharat."
- **AVEVA YUVAAN National AI/ML Hackathon 2026** — IIT Hyderabad; cleared Round 1 on industrial AI challenges.
- **Smart India Hackathon 2025** — Team Leader; ranked 12th of 101 teams (Internal Round, agri-tech track).

CERTIFICATIONS

- **Anthropic:** Claude Code in Action, Model Context Protocol: Advanced Topics
- **Palo Alto Networks:** Cybersecurity Fundamentals, Cloud Security Fundamentals
- **IBM SkillsBuild:** Build an AI Agent