

Prince Agrawal

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EDUCATION

The Maharaja Sayajirao University of Baroda Vadodara, Gujarat
B.E. in Computer Science and Engineering · CGPA: 8.18/10 (Year 1) 2025 – 2029

The New Horizon School Vadodara, Gujarat
Higher Secondary Certificate (GSEB) · 97.49 percentile · ACPC Rank: 1055 2025
Relevant Coursework: Data Structures, Object-Oriented Programming (Java), Combinatorial Methods

EXPERIENCE

Smart India Hackathon 2026 – Team Caffeine Coders Sep 2026 – Present
Technical Lead, Suraksha Saathi (PS 26041, Govt. of Jharkhand) | [Code](#) · [APK](#) College round cleared

- Led architecture and built the Android app, scoring engine, FastAPI + PostgreSQL backend and deployment for a 6-member team's camera-based safety training simulator; shipped a **v1.0.0 APK** in **12 days**.
- Designed a **data-driven scenario engine**: each drill is a JSON spec of steps and scoring rules run by one generic player, so a new safety domain needs content, not code; kept these formats intact while migrating from Unity to **Expo React Native** when Android tooling failed.
- Implemented action-based scoring as a **pure function over timestamped event logs** (9 rules per drill, critical-step auto-fail), backed by **779 tests** across app, API and dashboard running in **GitHub Actions CI** on every push.
- Built **offline-verifiable QR certificates** on a two-level **Ed25519** signature chain (root key → device attestation → certificate), verified identically by app, API and web via shared test vectors.

PROJECTS

Prism | *FastAPI, MongoDB, Gemini API, React, TypeScript, Firebase Auth* | [Live](#) · [Code](#) Aug 2026

- Built the **~2,950-line FastAPI backend** for an AI diligence tool: a **7-stage pipeline** (extract, normalise, cross-reference, materiality-score, etc.) that flags mismatched figures across a startup's pitch deck, financials and cap table.
- Designed an **asynchronous job API with status polling** so the React client shows live pipeline progress, and generated downloadable PDF readiness reports with likely investor questions.
- Fixed recurring classification failures by moving from Gemini 2.5 Pro to **2.5 Flash** within budget; owned deployment. Built in **2 days**.

Swasthya-AI | *React, TypeScript, Node.js, Express, Supabase, Gemini API* | [Code](#) Sep 2026

- Built **solo in 2 days** a voice-first, bilingual (Hindi/English) patient-intake kiosk with an 8-step flow: consent, guided interview, prescription scan, ABHA ID and routing to a doctor queue with a printable AI clinical summary.
- Used Gemini for speech, answer matching, adaptive follow-ups and document extraction; kept **red-flag detection rule-based** so emergency alerts never depend on model output; added **audio prefetching** and fixed voice-state leakage between questions.

CodeAutopsy | *JavaScript, HTML/CSS, Gemini API, Vercel* | [Live](#) 2026

- Built the entire application (**4 analysis modes**, LLM integration) for an AI code reviewer that grades bugs by severity with line numbers, scans for security issues and returns a **0–10 quality score** with fixed code as a diff.
- Engineered mode-specific prompts and a **strict structured-output schema** (severity, line, score, fix) so results render reliably across **9 auto-detected languages**; supports paste, upload and GitHub import, live with no sign-up.

TECHNICAL SKILLS

Languages: C, C++, Java
Frameworks: React, React Native, Node.js, Express, FastAPI, Tailwind CSS
Databases: PostgreSQL, Supabase, MongoDB, Firebase, SQLite
AI: Gemini API, multi-stage LLM document pipelines, prompt design, structured JSON output
Tools: Git, GitHub Actions (CI), Expo Go, Docker, Vercel, Render

ACHIEVEMENTS

- TetraTHON 2026 Hackathon** (36-hour Indo-French AI hackathon, Navrachana University): **top 44 of 160 teams**.
- Smart India Hackathon 2026:** cleared the MSU Baroda internal round; Decode SIH 2026 certificate (OSCode).
- Odoo × LDCE Hackathon:** built GlobeTrotter, a multi-city travel planner with AI cost estimates, in 1 day.

EXTRACURRICULAR

- Sports:** Badminton.