

SHREY OMER

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Education

International Institute of Information Technology Naya Raipur

8.07/10

B.Tech. in Data Science and Artificial Intelligence

Aug 2023 - Sept 2027

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Operating Systems, Machine Learning

Experience

Founding Engineering Intern

Mar 2026 - Present

RagXing Technologies Pvt. Ltd. (Product: Saraswati AI)

- Developed LLM cost-analytics dashboard tracking token usage, cost, latency, and error rate per LLM provider, per route, and per tenant; reduced LLM cost by capping Gemini's `thinking_budget` to stop the model from exhausting its shared output-token budget on internal scratchpad by **40 %**.
- Owned end-to-end push-notification infra (FCM + APNs) – token lifecycle, retries – delivering events to Flutter App.
- Shipped individual-teacher auth (self-signup, OTP, password reset, Supabase + backend profile sync) as an additive flow alongside school-managed accounts with zero regression.
- Led **5+** production-grade Flutter modules using Riverpod, including authentication, evaluation review, reports, and admin workflows with responsive light/dark theming across phones and tablets.

Full-Stack Developer (Contract)

Feb 2026 - Present

AFTR Labs LLP, Pune

- Owned the complete backend for a medical AI platform - **36+ REST APIs**, **6-queue async pipeline** (STT, OCR, Gemini AI, Medical Vision, Follow-up QnA, Push Notifications) with real-time SSE, atomic state machines, multi-language support, **Apple & Google Play billing**, and an **admin panel**.
- Shipped to the [Google Play Store](#); Designed **user-facing Flutter** features (assessment flow, SSE result screens, subscription UI) with responsive light/dark theming.
- **Load-tested & optimized with k6**: sustained **~300 req/s** at 58ms p95 with **zero errors** ($\sim 15\times$ projected load), and a **3.5 $\times$ throughput gain** (16 $\rightarrow$ 57 assessments/min) by re-architecting the Celery worker pool— validated **15,000+ concurrent users**.
- Automated platform maintenance using **4+ Celery Beat background workers** for subscription reconciliation, stale assessment recovery, draft cleanup, and database synchronization with Apple and Google billing systems.
- Integrated **FCM** push notifications, **AWS S3** presigned uploads, and **JWT + OAuth2** auth with rate limiting; containerized and deployed on **EC2** with **GitHub Actions CI/CD**.

Projects

Anugrah - Chhattisgarh Wildlife Compensation Portal [GitHub](#)

Jan 2025 - Jul 2025

- Eliminated manual intervention in the forest compensation process, reducing claim resolution from **7 to under 3 days**.
- Developed multi-signal AI verification pipeline (RAG similarity, location radius, identity matching, and temporal checks), automatically flagging duplicate submissions and reducing manual review workload.
- Engineered **GPS land measurement system** integrated with claim verification engine.
- Designed role-based approval workflows and an analytics dashboard for division-wise tracking and decision making.

Maati - Village Relocation Monitoring System [GitHub](#)

Jul 2025 - Dec 2025

- Built an AI chatbot for plain-English queries over live data; LLM emits a pseudo-query, a validator authorises it against the user's role, then executes - model never touches the database, blocking prompt-injection.
- Digitized the relocation process for **19 villages**, reducing manual paperwork processing from days to hours
- Established a **4-check** verification pipeline per survey - CV stage detection, geo-tag/location match, EXIF timestamp check, auto-flag on mismatch - routed through a hierarchical approval chain.
- Reduced API's response time from **1.2s to 340ms** through query optimisation and caching.

Technical Skills

Languages: Python, Java, C, SQL, Kotlin, Dart

Backend & Frameworks: FastAPI, Flask, Flutter, REST APIs, Microservices, Celery, WebSockets, SSE

Databases: MySQL, PostgreSQL, MongoDB, Pinecone, Redis

Cloud & DevOps: AWS (EC2, S3), Docker, Nginx, GitHub Actions, Jenkins, Git, CI/CD, Pytest, k6

Achievements

- **1st Place at TechExpo Scientific 2025**, [IIIT Naya Raipur](#)
- Received **Letter of Appreciation** from the **Forest & Climate Change Department, Govt. of Chhattisgarh** for Anugrah - Wildlife Compensation portal.
- **Ranked under top 15 out of 1,000+ teams at HackFusion, SPIT Mumbai**
- Reliance Foundation Undergraduate Scholar '23
- Art, Cultural & Literary Secretary, Student Activity Center (SAC), IIIT Naya Raipur