

ROUNAK AGARWAL

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EDUCATION

Indian Institute of Information Technology Jabalpur, Jabalpur, MP Aug 2024 – May 2028 (Expected)
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.4/10

COMPETITIVE PROGRAMMING

Codeforces - Expert, 1608 Rating [Profile](#)

- Solved **500+** **algorithmic problems** spanning dynamic programming, graph theory, greedy algorithms, and number theory, with consistent emphasis on time and space complexity optimization under contest constraints.

LeetCode - Knight, 1907 Rating [Profile](#)

- Solved **400+** **problems** across core data structures including arrays, linked lists, trees, heaps, and hash maps.

CodeChef - 3-Star, 1605 Rating [Profile](#)

- Achieved **Global Rank 390** in Starters 200 through efficient algorithmic implementation under time constraints.

TECHNICAL SKILLS

Languages: C++, C, Python, JavaScript, SQL, Bash, HTML/CSS, Java

Frameworks/Libraries: React, Node.js, Express.js, FastAPI, REST API design, Pandas, NumPy

Tools & Databases: Git, Linux, PostgreSQL, ClickHouse, MySQL, MongoDB, Postman, Ollama

CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks, Machine Learning

EXPERIENCE

AI/ML Intern, FreshBus, Hyderabad (On-site) May 2026 – June 2026

- Shipped a production CNN image-verification gate (MobileNetV3 + ArcFace) over a 79,000-image, 19-class pipeline at **1.0% FRR** and **0.995 AUC** in 7–13 ms/image, replacing manual review and blocking fraudulent verifications at intake.
- Built an autonomous multi-agent dynamic-pricing service (Gemini 2.5 Flash plus a deterministic safety validator) repricing live trips from PostgreSQL and ClickHouse feeds inside hard fare guardrails; backtesting cut anomalous over-discounting from **50 of 120 decisions to 2 of 120**.
- Engineered demand models (Monte Carlo simulation, NHPP, Gaussian copulas) reconstructing sparse booking data through cohort clustering and temporal bucketing, lifting revenue **3–4%** across a 10-trip pilot.

PROJECTS

Astrophage - Udte Bhawre (*JavaScript, Electron, Node.js, MCP, Gemini 2.5 Flash, ArmorIQ SDK*) [Github](#)

- Built an **MCP-powered** desktop AI assistant on Gemini 2.5 Flash executing OS operations end to end (email, scheduling, file management) across GitHub, Photoshop, and Figma integrations.
- Deployed a fail-closed policy engine neutralizing **27 critical command patterns** (e.g., rm -rf) through deep argument inspection, behind a 3-stage gate that cryptographically verifies every local LLM execution before dispatch.

MessChain (*Solidity, Hyperledger Besu, IPFS, Node.js, Prisma, PostgreSQL, React Native*) [Github](#)

- Built a ledger-backed prepaid meal-subscription system for hostel messes on a QBFT Besu EVM chain: **6 Solidity contracts** (token, time-lock, rebate, mess-change, governance, tender-rate) record daily charges, meal claims, and rebates as an append-only, independently verifiable audit trail, with complaint and feedback text stored on IPFS and its CID anchored on-chain.
- Integrated the React Native Android client against **27 REST routes**: QR-based meal verification, rebate requests with client-side checks of the contract's reverts, and admin approval queues returning real transaction hashes, replacing mock data and fabricated receipts with live on-chain state.

HONORS AND ACHIEVEMENTS

Google Gemma 4 Good Hackathon, Ollama Track Winner (*Kaggle and Google DeepMind, 2026*)

- Won the Ollama track and a **\$10,000** prize among **1,600+ teams globally** as 1 of only 2 winning Indian teams; owned the local Gemma 4 deployment path for PathOS, an offline-capable histopathology screening tool.

Amazon ML Summer School 2026

- Selected among the **top 3,000** of 130,000+ applicants (roughly 2% acceptance) for Amazon's intensive ML program.

HackByte 4.0 (MLH Hackathon, 2026)

- Achieved **First Runner-Up** overall and won the ArmorIQ Track at the 36-hour MLH event.

CodeRumble 2025 (Regional ICPC-Style Contest)

- Ranked **14th** among 80+ teams across Central India and **3rd among sophomore teams** in a 5-hour team contest.

VOLUNTEERING EXPERIENCE

Volunteer Educator, Jagrati (Non-Profit Organization) Aug 2024 – Present

- Teach Math and Science to underprivileged students in grades 6–10 for **5+ hours weekly** across four semesters.