

Raj Pratap Singh Gurjar

Undergraduate Sophomore

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EDUCATION

Indian Institute of Technology, Patna, BTech in Mathematics and Computing 2024 – 2028 (Expected)
• **Coursework:** Introduction To Machine Learning, Design and Analysis of Algorithms, Data Structures, Database Management Systems, Computer Architecture and Organization. CGPA : 8.14/10.0

EXPERIENCE

Uber Technologies (AI Division) Remote, India
Research Operations Expert (Contract) Nov 2025 – Present

- Improving on LLM tooling and evaluation workflows across Dockerized production CLI systems
- Improved reliability of LLM tooling pipelines by validating outputs and fixing failure cases in production execution traces

Nurtureme.ai Remote - Palo Alto, CA
SDE Intern May 2025 – Oct 2025

- Built and deployed an **AI-integrated healthcare portal** to digitize and automate patient intake workflows, featuring an LLM-powered patient interaction layer and adopted by **5+ beta clinics** to streamline doctor onboarding and triage
- Reduced manual screening effort by **~40%** by building a clinical scoring engine that transformed raw patient inputs into structured risk and severity signals
- Implemented **LLaMA 4** based medical chatbot with real-time conditioning on structured signals, enabling adaptive conversations, automated symptom summarization, and intelligent clinical routing

SKILLS

- **Core:** LLM Systems, RAG Pipelines, PyTorch, System Design
- **Languages:** Python, C++, SQL, JavaScript
- **Full-Stack & Data:** FastAPI, React.js, PostgreSQL, Pinecone
- **Infra & Tooling:** Docker, Git, AWS

PROJECTS

RaGGit - Issue Intelligence Platform GitHub

- Constructed an end-to-end issue intelligence system by ingesting and normalizing **2,400+ GitHub issues and PRs** into a hybrid **PostgreSQL + Pinecone** backend, enabling large-scale semantic retrieval across multi-repo data
- Designed a **RAG** workflow using **mistral-small** model for grounded technical Q&A, achieving **sub-second response times** across **2,000+ documents**
- Engineered an autonomous triage agent that classifies issues, assigns priority, detects duplicates, and recommends actions, generating structured decision outputs in **<2s per issue**

CodeBoss - AI Socratic Interview Coach GitHub | Live URL

- Architected a full-stack AI coaching platform using **Next.js** and **TypeScript**, used by **100+ real users**, that guides students through DSA problems using a Multi-Phase Socratic Pipeline leveraging **GPT-4o** and **Claude 3.5**
- Designed a novel Two-Pass Verification System with an integrated **Code interpreter** to computationally validate AI-generated algorithm steps, reducing model hallucinations by **~40%** and ensuring high technical accuracy
- Developed a high-performance browser-based IDE with **Monaco Editor** and **React 19**, implementing **optimistic UI** updates and **Upstash Redis** caching to achieve sub-100ms interaction latency

ACCOMPLISHMENTS

- **1.8k / 45k+** candidates in IICPC Codefest 2025 (intercollegiate competitive programming contest)
- **Gold Certificate** - Research Consultant, WorldQuant (global quantitative research program)
- Codeforces **1328** | Solved **400+ DSA problems** across Codeforces, LeetCode, and CodeChef
- Completed the Google Upskilling Launchpad Program (2025)
- **99.7 percentile** in JEE Mains | **96.8 percentile** in JEE Advanced | **AIR 32** in AIME 2024