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 (AI) — Remote, India
Research Operations Expert (Contract) — Nov 2025 – Present

- Evaluated and worked on LLM tooling and evaluation workflows used in 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 $\sim$**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 AI & Systems:** LLM Systems, RAG Pipelines, PyTorch, System Design
- **Languages:** Python, C++, SQL, JavaScript
- **Backend, Data & APIs:** FastAPI, REST APIs, PostgreSQL, Pinecone
- **Cloud, Infra & Frontend:** Docker, AWS, Git, React.js

PROJECTS

RaGGit - Issue Intelligence Platform — GitHub

- Owned end-to-end development of an 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**

Algority — Personal LeetCode Trainer — GitHub | Live URL

- Led the design and implementation of a fullstack AI coaching platform for leetcode using **Next.js 15** and **TypeScript**, used by **100 real users**, guiding users via a Multi phase Socratic Pipeline powered by **Qwen3.5** and a fallback LLM for reliability.
- Introduced a novel **Two Pass Verification System** with an integrated secure **Code Interpreter** to computationally validate LLM generated algorithm steps, reducing model hallucinations by ~**40%**.
- Developed a high performance browser based IDE using **Monaco Editor** and **React 19**, implementing optimistic UI updates and **Upstash Redis** caching to reduce database load.

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