

# Raj Pratap Singh Gurjar

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## EDUCATION

- **Indian Institute of Technology(IIT) Patna** Patna, Bihar, India  
(BTech in Mathematics and Computing. **CPI: 8.14**) July 2024 - May 2028 (Expected)
- **Bhaskar Academy** Indore, MP, India  
Senior Secondary (Class 12<sup>th</sup>), CBSE, **Percentage: 90.6%** Apr 2023 - May 2024

## EXPERIENCE

- **Nurtureme.ai** Remote - Palo Alto, CA  
Full-Stack Intern May 2025 — Oct 2025
  - Developed an **AI-integrated healthcare portal** that used **deterministic scoring logic** to evaluate standardized medical questionnaires (e.g - SNOT-22, EPWORTH).
  - Built a **chatbot using LLaMA @ OpenRouter** for patient-doctor interactions, fine-tuned to guide patients based on real-time quiz outcomes.
  - Optimized the frontend for **low-latency responses** by managing asynchronous API requests and implementing loading states to handle high-inference-time LLM calls.
  - Architected a **Relational Schema** utilizing **Foreign Key constraints** and **Row-Level Security (RLS)** policies to ensure multi-tenant data privacy and clinical data persistence.

## PROJECTS

- **ResumeAgent** GitHub | Website  
Multi-Agent AI Resume Optimization Platform Dec 2025
  - Engineered a **scalable, eligibility-aware multi-agent backend** that parses job descriptions, validates hard constraints and gates resume editing to avoid unnecessary inference.
  - Designed a **serverless pipeline** using **AWS Lambda, API Gateway, and Bedrock (Nova Lite)**, leveraging **few-shot, schema-constrained prompts** for deterministic resume rewriting at low cost.
  - Deployed a **React-based frontend**, leveraging **asynchronous, event-driven Lambda execution** to handle bursty web traffic and automatically scale with request load.
- **Trippr** Feb 2025 – Mar 2025  
AI Travel Planner Github
  - Developed a travel planning engine that utilizes **Few-Shot Prompting** to standardize LLM outputs into a structured, parseable format suitable for frontend rendering.
  - Optimized LLM-generated routes by implementing a **graph-based heuristic (TSP)** to minimize travel distance between **geospatial coordinates (lat/long)**.
  - Architected a **MongoDB persistence layer** with **asynchronous fetching logic** to manage high-latency LLM response cycles while maintaining a responsive, state-managed UI.

## ACCOMPLISHMENTS

- **Research Consultant, WorldQuant** – Awarded **Gold Certificate**.
- Completed the **Google Upskilling Launchpad Program** (2025).
- **Codeforces** – Pupil (1328) | 1,812/45,000+ in **IICPC Codefest 2025**.
- **99.7 percentile in JEE Mains'24** | **96.8% percentile in JEE Advanced'24** | **AIR 32 in AIME 2024**.

## SKILLS

- **Languages:** Python, C++, C#, JavaScript, TypeScript, SQL.
- **Frameworks & Libraries:** React, Flask, Express.js, Node.js, NumPy, TensorFlow, scikit-learn, spaCy, LangChain, TailwindCSS.
- **Tools & Platforms:** Git, VSCode, Supabase, Postman, Firebase, Google Cloud, OpenRouter, Docker, n8n (Workflow Automation).
- **Relevant Courses:** Design and Analysis of Algorithms, Data Structures, Foundations of Programming, Probability and Stochastic Processes, Differential Equations, Linear Algebra.