

# RAJ PRATAP SINGH GURJAR

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## EDUCATION

### Indian Institute of Technology, Patna

*B.Tech in Mathematics and Computing*

Expected July 2028

Current CPI: 8.34/10.0

### Bhaskar Academy, Indore

*Class XII – CBSE – 90.6%*

April 2023

### Delhi Public School, Gwalior

*Class X – CBSE – 95%*

April 2021

## SKILLS

**Languages:** C/C++, Python, JavaScript, HTML/CSS, SQL, LaTeX

**Tools:** Git, VS Code, PyCharm, Postman, MATLAB

**Frameworks:** Flask, Next.js, TensorFlow, OpenRouter

**Algorithms:** TSP, Dijkstra's, Backtesting Pipelines, Dynamic Programming

## EXPERIENCE

### WorldQuant | *Research Consultant*

Feb. 2025 – Present

- Developed alpha strategies for US and China stock markets using ML models.
- Integrated RESTful APIs for real-time data analysis.

### Schoolhouse.world | *Tutor*

Dec. 2023 – Feb. 2024

- Founded Competitive Programming Series with 90%+ accuracy rating.
- Tutored over 20 students in STEM subjects (Computer Science, Math).
- Received 10+ certifications and positive feedback.

### NJACK, Competitive Programming Club | *Member*

July 2024 – Present

- Highest-rated 1<sup>st</sup>-year Codeforces competitor (1300+).
- Contributed to open-source problem sets and CP tutorials.

## PROJECTS

### • **Trippr** | *React, Flask, PostgreSQL, OpenRouter, JWT*

Mar. 2025

- Built travel itinerary generator using TSP and Dijkstra's algorithm.
- Integrated OpenRouter and RapidAPI for real-time data handling.
- Implemented caching and session management to reduce API latency by 25%.
- Secure user authentication with OAuth and JWT tokens.
- Developed an admin dashboard for monitoring user activity and analytics.

### • **EduAid** | *Next.js, Flask, MongoDB, NLP*

Feb. 2025

- AI-based quiz generator using NLP models for tailored learning.
- Integrated Flask backend with MongoDB for data storage.

## ACHIEVEMENTS

- Ranked **557** out of 27,000+ participants in CodeChef Starters 157.
- Received WorldQuant Challenge Gold Certificate for top-tier performance.
- Ranked **1812** out of 40,000+ participants in Codefest 2025 on CodeChef.
- Achieved Codeforces Rating of **1300+** (Top-rated 1st year).
- Qualified AIME; AMC Distinction Award (Country Rank 32).
- Received IOQM Merit Certificate 2022 ranking in approx Top 0.8% nationally.