

Raj Pratap Singh Gurjar

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EDUCATION

- **Indian Institute of Technology(IIT) Patna** Patna, Bihar, India
(BTech in Mathematics and Computing. *CPI: 8.34*) July 2024 - July 2028 (Expected)
- **Bhaskar Academy** Indore, MP, India
Senior Secondary (Class 12th), CBSE, *Percentage: 90.6%* April 2023 - May 2024
- **Delhi Public School** Gwalior, MP, India
Secondary (Class 10th), CBSE, *Percentage: 95%* April 2021 - May 2022

ACCOMPLISHMENTS

- **Research Consultant** at **WorldQuant**, received a gold certificate and earned alphas worth 10,000+ points .
- **Pupil** at **Codeforces** with a current rating **1328**.
- 2 Star on **Codechef** with current rating **1482**.
- Secured a global rank of **557** out of **27681** candidates in Codechef Starters 157 Contest held on 23rd October 2024.
- Secured a rank of **1812** out of **45000+** candidates registered in Inter IIT Competitive Programming Conclave (IICPC) Prelims Contest held on 12th February 2025.
- Secured an All India Rank of **8085** out of more than **0.18** million candidates in JEE Advanced 2025.
- Ranked as top **0.3** percentile out of more than **1.4** million candidates in JEE Mains 2024.
- **Qualified for AIME 2024**, American Invitational Mathematical Examination and ranked nationally 32 out of 1000+ candidates.
- **Qualified for IOQM Merit Certificate**, Indian Olympiad Qualifier in Mathematics'22

PROJECTS

- **Triprr: AI-Powered Travel Itinerary Generator** March 25 - Present
CS1201 Course Project
 - Developed an AI-powered system to generate optimized travel itineraries based on user-provided cities and dates.
 - Utilized an open-source LLM to extract travel recommendations from sources and filter relevant locations.
 - Implementing graph-based optimization (**Dijkstra's algorithm**) to plan the most efficient routes based on ratings and travel time.
 - Incorporating **sustainable travel recommendations** by prioritizing eco-friendly destinations and efficient transportation methods.

SKILLS/RELEVANT COURSEWORK

- **Programming/Development Languages:** C/C++, Python, JavaScript, HTML, CSS
- **Libraries/Frameworks:** Node.js, Express.js, React.js, Scikit-Learn, TensorFlow
- **Relevant Courses:** Data Structures, Probability Theory, Ordinary Differential Equations, Calculus & Linear Algebra, Foundations of Programming
- **Interests:** Machine Learning, Software Development, Competitive Programming, Sustainable Development

EXTRACURRICULAR ACTIVITIES

- Member of **Media and Public Relations Committee** of annual technical fest Celesta'24.