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

- **Trippr: AI-Powered Travel Itinerary Generator** — *March 25 - Present*
  CS1201 Course Project
  - Developing an AI-powered system to generate optimized travel itineraries based on user-provided cities and dates.
  - Utilizing 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.