

SAUMYA PRATAP SINGH

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Education

Indian Institute of Technology, Patna

Bachelor of Technology in Artificial Intelligence and Data Science

Dr. Virendra Swarup Education Centre, Avadhpuri, Kanpur

Council for the Indian School Certificate Examinations

Dr. Virendra Swarup Education Centre, Avadhpuri, Kanpur

Council for the Indian School Certificate Examinations

Nov. 2022 – May 2026(expected)

CPI: 8.02

Jun. 2019 – May 2021

Percentage: 98.75%

Apr. 2017 – May 2019

Percentage: 96.6%

Projects

- **Real Time Chat App with Chatbot** (*MongoDB, React.js, Node.js, Express.js, Socket.io, Cohere API*) *Source Code:* [Link](#)
 - Designed and developed a full-stack real-time chat application with AI-powered chatbot integration, leveraging React for the frontend and Node.js for the backend.
 - Implemented dynamic one-on-one messaging, customizable user avatars, and emoji support, enhancing user interaction and experience.
 - Integrated Cohere API for intelligent chatbot responses, enabling context-aware, real-time assistance and improving engagement.
 - Engineered a scalable backend infrastructure that supports thousands of concurrent users, ensuring high availability and minimal performance latency.
- **Project Collaboration Website** (*HTML, CSS, PHP, JS, MySQL, Xampp*) *Source Code:* [Link](#)
 - Facilitated seamless collaboration among college students and faculty through secure login, project viewing, and expressing interest functionalities integrated with a college database.
 - Solved the problem of searching for ongoing projects in the college campus by providing a centralized platform.
 - Implemented real-time updates and notifications for project activities to keep users informed and engaged.

Accomplishments

- **Specialist** on **Codeforces** with max rating **1422**. **Profile Link.**
- **3 Star Coder** on **Codechef** with peak rating **1715**. **Profile Link.**
- Secured a global rank of **118** in **CodeChef Starters 105(Div. 3)** among **3,000+** active participants.
- Secured a global rank of **185** in **CodeChef Starters 102(Div. 3)** among **3,000+** active participants.
- Secured a global rank of **1805** in **Codeforces EPIC Institute of Technology Round Summer 2024 (Div. 1 + Div. 2)** among **30,000+** active participants.
- Secured an All India Rank of **2570** out of more than **8 lakh** candidates in **JEE Mains 2022**
- Secured an All India Rank of **4026** out of more than **1.5 lakh** candidates in **JEE Advanced 2022**

Skills / Relevant Coursework

- **Technical Skills:**
 - **Programming Languages:** C/C++, JavaScript, Java (Basic).
 - **Web Development:** HTML, CSS, PHP, Node.js, React.js, Express.js, Socket.io.
 - **Databases & Tools:** MySQL, MongoDB, Git/GitHub, XAMPP.
 - **Operating Systems:** Windows, Linux.
 - Familiar with Object-Oriented Programming (OOP).
- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management Systems, Linear Algebra, Probability Theory, Optimization Techniques, Mathematical Statistics.

Experience/Extracurricular

Sub-Coordinator at Infinito 2023 (Sports Fest, IIT Patna)

Apr. 2023 – Oct. 2023

- Secured sponsorships and led marketing campaigns, driving successful fundraising for the sports fest.

Content Development and Research Internship at Mathongo (Certificate Link)

Dec. 2023 – Jan. 2024

- Conducted research on mathematics and physics for JEE Mains and Advanced.
- Developed educational content used by over 10,000 students daily for exam preparation.