Saumya Pratap Singh

📞 +91 9682205617　✉ spsingh101203@gmail.com　in Saumya Pratap Singh　⬡ Saumya101203

Education

Indian Institute of Technology, Patna	**Nov. 2022 – May 2026(expected)**
Bachelor of Technology in Artificial Intelligence and Data Science	*CPI: 8.02*
Dr. Virendra Swarup Education Centre, Avadhpuri, Kanpur	**Jun. 2019 – May 2021**
Council for the Indian School Certificate Examinations	*Percentage: 98.75%*
Dr. Virendra Swarup Education Centre, Avadhpuri, Kanpur	**Apr. 2017 – May 2019**
Council for the Indian School Certificate Examinations	*Percentage: 96.6%*

Projects

- **Twitube - Subscription-Based Video Sharing Platform** *(MERN Stack, Mongoose)*　*Demo:* Link　*Github Link:* Link

  - Developed a subscription-based video-sharing platform allowing users to upload videos with essential details like name, description, video file, and thumbnail.
  - Integrated functionality for users to like videos, subscribe to channels, and view the total number of video views, enriching user interaction and engagement.
  - Enabled users to post tweets, which are visible to anyone on their channel, promoting community engagement and real-time updates.
  - Allowed users to personalize their channels by customizing their avatar image, fostering individuality and enhancing user experience.
  - Users can access a "subscriptions" tab to view and interact with the latest content from channels they are subscribed to, ensuring a streamlined and personalized content feed.

- **Snappy - Real Time Chat App with Chatbot** *(MERN Stack, Socket.io, Cohere API)*　*Demo:* Link　*Github Link:* Link

  - Designed and developed a full stack real-time chat application with AI-powered chat bot integration, leveraging React for the front-end and Node.js for the back-end.
  - Implemented robust one-on-one messaging capabilities alongside favorable personalization features like custom avatars; contributed directly to elevating average session durations across all active channels in the application ecosystem.
  - Integrated Cohere API for intelligent chat bot responses, enabling context-aware, real-time assistance, and improving engagement.

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 **118** in **CodeChef Starters 105(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.
  - **Web Development:** HTML, CSS, Node.js, React.js, Express.js, Socket.io,Tailwind CSS,Mongoose.
  - **Databases & Tools:** MySQL, MongoDB, Git/GitHub, XAMPP,Postman,Appwrite.
  - **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.