

Sarthak Kushwah

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EDUCATION

- **Indian Institute of Technology Patna** Bihta, Bihar, India
Bachelor of Technology in Mathematics and Computing, 2nd Year, CGPA: 7.73 *August 2023 – May 2027*
- **Bright Convent Hr. Sec. School** Morena, M.P., India
Senior Secondary (Class 12), MP Board, Percentage: 84.0% *April 2022 – May 2023*
- **Bright Convent Hr. Sec. School** Morena, M.P., India
Secondary (Class 10), MP Board, Percentage: 75.2% *April 2020 – May 2021*

EXPERIENCE

- **Growth Intern and Mentor** June 2023 – July 2023
FACT APP *Remote*
 - Managed a platform connecting 30,000+ mentors and students for improved academic networking.
 - Guided 50+ students during JOSAA counseling, optimizing their college selection.
 - Led a marketing campaign, achieving a 40% increase in user acquisition and a 25% boost in engagement.
 - Hosted a webinar for 200+ students, effectively promoting IIT Patna among 23 IITs.

PROJECTS

- **Simple Assembler and Emulator** | *C++, File Handling, Data Structures* *November 2024*
 - Developed a two-pass assembler to convert assembly code into machine code, generating object and listing files with error diagnostics.
 - Implemented an emulator to execute machine code, simulating SIMPLE machine operations, including register and stack manipulations.
 - Enhanced usability with debugging commands like `-trace`, `-before`, and `-after` to inspect memory states and track execution.
 - Validated functionality using custom assembly programs like bubble sort and Kadane's algorithm.

SKILLS SUMMARY

- **Programming & Tools:** C, C++, Python, HTML, CSS, SQL, JavaScript, Google Colab
- **Libraries/Frameworks:** NumPy, Seaborn, MATLAB, Pandas
- **Relevant Courses:** Data Science, DSA, Machine Learning, DBMS, Computer Architecture
- **Interests:** Web Development, Machine Learning, Competitive Programming

ACHIEVEMENTS

- Pupil (max. rating 1383) on Codeforces. *January 2025*
- Achieved Overall Rank 500 in Codeforces Round 978 (Div. 2). *October 2024*
- Secured **AIR 9500** in JEE Advanced, ranking in the top **1.0%**. *August 2023*

PORS AND CO-CURRICULAR ACTIVITIES

- **NSS Volunteer:** Actively participated in community service initiatives at IIT Patna. August 2023 – May 2024
- **Volunteer:** Contributed to events like Infinito, Anwasha, and Celesta.
- **Student Co-Mentor:** Guided freshers in academics and extracurriculars. November 2022