

Shubham Agrawal

Portfolio: [Website](#)

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (AI&DS)	Indian Institute of Technology, Patna	8.44 (Current)	2023-Present
Senior Secondary	CBSE Board	91.4%	2022
Secondary	CBSE Board	89%	2020

PROJECTS

- **Career Horizon** Mar. 2025
Developed a full-stack web application to centralize off-campus internship opportunities and hackathons. [Live Site](#) | [GitHub](#)
 - **Tools & technologies used:** ReactJs, Firebase, NodeJs, Express
 - Implemented role-based authentication for students and administrators.
 - Developed an internship listing page with real-time updates using Firebase Firestore.
 - Integrated Google Authentication for secure user access, reduced sign-in friction by 30%.
- **Smart-Cricket** Apr. 2025
An AI-powered cricket analytics platform offering real-time insights and match predictions. [Demo Video](#) | [Github](#)
 - **Tools & technologies used:** Python, ReactJS, Django
 - Implemented a real-time commentary generator using NLP techniques to provide dynamic, human-like match narration based on live match data.
 - Trained on 1,000+ historical matches and 50K+ datapoints (overs, wickets, run rate) of CricSheet dataset to generate real-time win predictions and score predictions with 85% accuracy
 - Increased fan engagement by simulating outcome shifts after each ball
- **Two-Pass Assembler** Nov. 2024
Developed a two-pass assembler as a course project to process an extended SIMPLE instruction set. [Github](#)
 - **Tools & technologies used:** C/C++
 - Designed and implemented an assembler to convert assembly code into machine code, incorporating error handling during the first pass.
 - Developed machine code compatible with an **emulator** for execution and showing step wise **register and memory updates**

ACHIEVEMENTS

- **Secured 1st Position** Swachata hi Sewa, ML contest, NSS, IIT PATNA. 2024
- **Global Rank 1306** out of 28000+ participants in **Codeforces** Round 1032 (Div. 3). 2025
- **Global Rank 1867** Out of 25000+ participants in **LeetCode** biweekly contest 158. ([LeetCode ID](#)) 2025
- Pupil at **Codeforces** with a max rating of **1333**. ([Codeforces ID](#)) 2025
- Secured All India Rank **4597** out of more than 2.5 lakh participants in **JEE Advanced 2023**. 2023
- Secured All India Rank **7397** out of more than 10 lakh participants in **JEE Mains 2023**. 2023

TECHNICAL SKILLS

- **Programming:** C / C++, Python, JavaScript, SQL, R
- **Web Skills:** HTML/CSS/JS, ReactJS, NodeJs, ExpressJs
- **Libraries/Frameworks:** Pandas, Numpy, scikit-learn
- **Development Tools:** Git, Jupyter Notebook, Google Colab

KEY COURSES TAKEN

- Data Analytics and Visualization, Machine Learning, Artificial Intelligence, Data Structure, Algorithms, Database and Warehousing, Digital Logic and Computer Organization, Discrete Mathematics, Optimization Techniques.

POSITIONS OF RESPONSIBILITY

- **Team Manager**, Google Developers Group on Campus, IIT Patna Sept. 2024 - Present
- **Coordinator**, NJACK (Cybersecurity), IIT PATNA Apr. 2025 - Present
- **Coordinator**, ANWESHA, Hospitality and Logistics Division, IIT PATNA Apr. 2025 - Present