



Aditya Sen

UG (IV Year II Semester)
B.Tech. (Metallurgical & Materials Engineering)
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Registration No: 20118004/2024

Indian Institute of
Technology
Roorkee



Area of Interest

Problem-solving, Data Structures & Algorithms, Fullstack

Education

Year	Degree/Examination	Institution/Board	CGPA/ Percentage
2024	B.Tech. 4th Year	Indian Institute of Technology, Roorkee	8.452
2019	Intermediate (Class XII)	G R Global Academy (CBSE), Jaipur Raj	86.40 %
2017	Matriculate (Class X)	G R Global Academy (CBSE), Jaipur Raj	9.800

Internships

Software Engineer | Ineuron.ai

May 2023 - July 2023

- Use Bitcoin transaction dataset to predict money laundering.
- Convert CSV data into data-set using pandas, apply data preprocessing and predictive data modelling.
- Prepare user user-friendly interface using MERN stack & integrate in the project.

Projects

Autonomous Underwater Vehicle | ASME, IIT Roorkee Chapter

October 2021 - April 2022

- Designed AUV for deep-sea navigation & exploration.
- Programmed the Arduino for 5 DOF and control gripper. Also, implement PID for stable & accurate movement.
- Leverage the Arduino and ROS with PySerial library for serial communication.

Algorithm Visualizer | Self Project

July 2023 - September 2023

- Create an Algorithms Visualiser web app to visualize famous sorting algorithms such as Bubble-Sort & Insertion-Sort, Pathfinding algorithms as Dijkstra, DFS & BFS, and deploy the app over Vercel
- Tech-Stack used in the project is NextJS & Typescript.

NCC Website | IIT Roorkee

March 2023 - November 2023

- Being part of the IIT Roorkee 3UK CTR, NCC core team, I contributed to the design & development of the official website.
- Code the components & pages of the website to enhance the presence of NCC on campus.
- Enjoyed team work & complete the task on time.

Awards / Scholarships / Academic Achievements

- 294th rank globally in August Coderush, Newton School
- Third runner up in 9th All India UCMAS Abacus, Mental Arithmetic Competition held in 2009.
- Secured 967th rank globally in Codeforces Round 894 (Div 3)
- Selected Delegate for Havard Project for Asian and International Relations 2023 (HPAIR)
- Earned Gold, Silver and Bronze in World Quant Brain
- Secured 161th rank globally in June Long Challenge, Div 4 over CodeChef with Username : aditya_1606.

Skills

Computer languages C++, Python, SQL, Rest API, JavaScript, React, Fullstack, Docker
Software Packages VSCode, MySQL, Sublime

Positions of Responsibility & Extra Curriculars

Competitive Programming | Online Judges

January 2022 - Present

- An active member on various online judges including Codeforces, Codechef, Leetcode, and InterviewBit.
- Specialist over Codeforces (rating: 1514-max)
- Solved over 500 problems over Leetcode, and 300 problems over InterviewBit.

Technical Head | ASME IIT Roorkee Chapter

May 2022 - July 2023

- American Society of Mechanical Engineers (ASME) is technical club that organizes workshops and other technical events & competitions.
- Joined group as a technical member and worked in the team on various innovative projects such as Autonomous Underwater Vehicle, Pick & Place Robot; also participated in several competitions, ASME E-Fest, SAUVC, and Flipkart Grid.
- Promoted as Technical Head in Electronics.

Event Co-ordinator | Workshop on Microcontrollers & Sensors

February 2022

- Conducted workshop about microcontrollers, sensors & actuators, discussed their functioning and application.
- Demonstrate actuators and sensors controlled by a microcontroller and implement their use in a robotic project.