Raunak Kumar

+91-8015623648

Bachelor of Technology (B.Tech)
Electronics and Communication Engineering
Indian Institute of Technology Roorkee , Uttarakhand

raunak0831@gmail.com
GitHub
LinkedIn

Summary

I'm a second-year student currently enrolled in Electronics and Communication at IIT Roorkee. I am drawn to the world of programming and am eager to delve deeper into the challenges and opportunities it presents.

Education

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology , Roorkee	IIT Roorkee	8.62 (2nd Sem)	2023-2027
Senior Secondary	KSV Senior Secondary School	CBSE	97%	2023
Secondary	Air Force School	CBSE	94%	2021

Achievements

- **National Talent Search Examination Stage 2 Scholar (NTSE)**: Awarded the prestigious NTSE Stage 2 Scholarship, a national-level recognition for exceptional academic performance and aptitude. I was among the top 0.02 % of 1 million candidates nationally.

- **National Standard Examination in Physics 2022**: I received an award for being the state topper of Tamil Nadu and secured a place among top 1 % of 0.2 million candidates.

- **JEE Mains 2023**: Secured **AIR 1831** among 1.5 million candidates appearing for the national level examination

- **JEE Advanced 2023**: Secured **AIR 1359** among 0.2 million candidates qualified for JEE Advance based on JEE mains score

Projects

- **Website-Integrated Personalized Chatbot**: The objective of this project is to help all the students of IIT Roorkee through a chatbot and dynamic website.It would help them decide on their career through ML-based recommendations, connecting them with achievers of different national/ international contests of IITR through an internal news feed algorithm, personalized internship /hackathons recommendations, and many more functionalities which I plan to add in future.   **Github Link**

- **Basic Operating System in Rust**: This objective of this project was to get started with low-level programming. This project helped me in learning the internals of Operating Systems.   **Github Link**

Technical Skills

- **Programming Languages**: C/C++, Python , HTML, CSS, Javascript, Rust
- **Tools and Frameworks**: Jupyter, Visual Studio , Flask , React , Numpy , Pandas, Pwntools, IDA, Ghidra, GDB
- **Operating Systems**: Windows, Linux & Android

Key courses taken

- **Data Structures & Algorithms**: Designing and implementing various Data Structures and optimizing Algorithms for efficient problem solving with a focus on time and space complexity analysis.

- **Python**: Understanding all the fundamentals and advance concepts of python.

- **Applied Mathematics**: Understanding advanced mathematical concepts and techniques that are fundamental to solving complex engineering problems.

- **Binary Exploitation** : Learnt about the basics of Binary Exploitation. Learnt about various exploitaion techniques and their mitigations along side ELF files and its structure.

- **Advance Data Structures** : Learning advance concepts to solve critical problems to enhance the problem solving ability.

- **ML Algorithms** : Learning the concepts of regression and classification algorithms of ML.

Competitive Coding

- **Codeforces**, Currently holding a rating of 1100 on Codeforces   *Present*