

RAJDEEP MAJI | 20EC39052





EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	M.TECH Dual Degree 5Y	IIT Kharagpur	8.05 / 10
2020	Class XII, CBSE	Kendriya Vidyalaya No. 03, B.S.City	94%
2018	Class X, CBSE	Kendriya Vidyalaya No. 03, B.S.City	94.6%

PROJECTS

Library-Management System | Under the mentorship of Prof. Pawan Kumar

[May 2023 - Jul 2023]

- Created database management system to handle library processes in efficient and reliable manner using Structured Query Language (SQL)
- Unleashed the power of Normalization to streamline complexity, elevate database performance, and eliminate data redundancy
- Integrated functionality to effortlessly retrieve real-time information on book availability and allocation across multiple library branches
- Maximized query performance through advanced techniques such as stored procedures, precompiled routines &assigned IDs to
 elevate database efficiency(https://github.com/rjdep/Library_Management_System)

Searching and Sorting Visualizer | Self Project

[May 2022- Jun 2022]

[Apr 2023]

- Pioneered the development of a visualizer that unveils the intricate principles underlying diverse pathfinding and sorting algorithms
- Crafted an intuitive interface using pygame, capturing user inputs through keyboard &mouse interactions, while delivering visual experience
- Supports renowned pathfinding algorithms like A-star, Breadth-First Search (BFS), and Depth-First Search (DFS)

Achieved a Global Rank of 164 in competitive Codeforces Round #863, outperforming over 17,000 participants

Embraces a diverse array of sorting algorithms, including Bubble Sort, Insertion Sort, and Merge Sort, enabling users to navigate the
realms of optimization and discovery (https://github.com/rjdep/Searching-and-Sorting-Visualizer)

COMPETITION/CONFERENCE

Codeforces:

	Nonieved a Global Rank of 104 in competitive Godelorees Round #000, outperforming over 11,000 participants	
	 Achieved a Global Rank of 743 in competitive Codeforces Educational Round #150, outperforming over 20,000 participants Codechef:	[Jun 2023]
•	 Achieved a Global Rank of 126 in competitive Codechef August Lunchtime 2022, outperforming over 20,000 participants 	[Aug 2022]
	 Achieved a Global Rank of 91 in competitive Codechef Starters 65 organized by IIIT Pune, outperforming 18,000+ participants Leetcode: 	[Nov 2022]
•	 Achieved a Global Rank of 127 in the competitive Leetcode Biweekly Contest 100, outperforming over 20,000 participants 	[Mar 2023]
	 Achieved a Global Rank of 185 in the competitive Leetcode Weekly Contest 93, outperforming over 17,000 participants Google Coding Competitions: 	[Dec 2022]
•	 Achieved a Global Rank of 472 in highly competitive Google Kickstart '22 Round F, outshining a field of 9,000+ participants 	[Sep 2022]
•	 Achieved a Global Rank of 787 in highly competitive Google Codejam Farewell Round A, outperforming 8,500+ participants 	[Apr 2023]

AWARDS AND ACHIEVEMENTS

Achieved a Peak Rating of 1668 on Codeforces, crossing the threshold to attain the prestigious title of Expert

[ID: Crompton_15Dec]

Attained a Peak Rating of 1972 on Codechef, solidifying a well-deserved position as a 4-star coder

[ID: crompton]

Attained a Peak Rating of **2163** and proudly earned the coveted **Knight** badge on Leetcode

[ID: rajdeep_maji]

Recognized for academic excellence and awarded the prestigious **MCM** (Merit cum Means Scholarship) during the sophomore year

SKILLS AND EXPERTISE

Programming Languages: C | C++ | Python| HTML | CSS | JavaScript* **Libraries and Frameworks**: C++ STL | Matplotlib* | Numpy* | Pandas*

Tools: VS Code | Git | Github | Matlab | LTSpice | HFSS* (* elementary proficiency)

COURSEWORK INFORMATION

- Computer Science: Programming and Data Structures | Programming and Data Structures Laboratory | Algorithms | Computer Architecture
- Mathematics: Probability and Statistics | Linear Algebra | Matrix Algebra | Mathematics | &II | Calculus | &II
- Electronics: Digital Electronics | Digital Signal Processing | Communication I &II | Network Theory | Signals and Systems

POSITIONS OF RESPONSIBILITY

Junior Executive Member | Gopali Youth Welfare Society

[Jan 2021- Sept 2021]

- A Non-Governmental Organization run by team of students in association with the professors of IIT Kharagpur
- Organized a series of weekly workshops for teachers, explaining essential skills for effective online teaching during the times of pandemic
- Served as content writer for the vibrant social media handles of a society with a remarkable following of 20,000+ individuals on Facebook
- Orchestrated a three-day challenge event that garnered overwhelming participation, with 1000+ individuals joining the exhilarating journey

EXTRA CURRICULAR ACTIVITIES

- Dedicated service as a cadet in 3 Bengal Tech AIR SQN NCC (National Cadet Corps), at IIT Kharagpur over two years
- Member of Volleyball Team, Patel Hall of Residence in Inter Hall General Championship 2021-22 at IIT Kharagpur
- Member of English Elocution Team, Patel Hall of Residence in Inter Hall General Championship 2021-22 at IIT Kharagpur
- Excelling as Subject-Matter Expert (SME) in Adv. Mathematics at Chegg Inc., leveraging knowledge to assist students for past two years