




# RAJDEEP MAJI

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## EDUCATION

<b>Indian Institute of Technology Kharagpur, India</b> Major: M.Tech Dual Degree 5Y in Electronics and Electrical Communication Engineering	2020 - 2025 <b>GPA: 8.05/10.0</b>
<b>Kendriya Vidyalaya No. 03, Bokaro</b> Class XII: Maths, Physics, Chemistry, English, Hindi	2018 - 2020 <b>CBSE: 94%</b>
<b>Kendriya Vidyalaya No. 03, Bokaro</b> Class X: Maths, Science, Social Science, English, Hindi	2008 - 2018 <b>CBSE: 94.6%</b>

## PROJECTS

<b>Library-Management System   Course Project   Prof. Pawan Kumar</b> <a href="#">[GitHub Link]</a>	May 2023 - Jun 2023
<ul style="list-style-type: none"><li>Created database management system to handle library processes efficiently using <b>Structured Query Language (SQL)</b></li><li>Used <b>Normalization</b> to streamline complexity, elevate database performance, and eliminate <b>data redundancy</b></li><li>Maximized query performance through advanced techniques such as <b>stored procedures</b> and <b>indexing</b> across all branches</li><li>Integrated functionality to effortlessly retrieve real-time information on book availability and allocation across multiple library branches</li></ul>	
<b>Price Tracking Application   Self Project</b> <a href="#">[GitHub Link]</a>	Jun 2022 - July 2022
<ul style="list-style-type: none"><li>Created a price tracker using the inbuilt <b>python</b> libraries and tracked the prices of the items on Flipkart using the corresponding product's URL and currently the app is fully operational on local devices</li><li>Used <b>requests</b> library for scraping and <b>BeautifulSoup</b> for parsing data i.e.current price of the product</li><li>Built the user interface using <b>Flask</b>,python to accumulate the user data and store it in the database</li></ul>	
<b>Searching and Sorting Visualizer   Self Project</b> <a href="#">[GitHub Link]</a>	May 2022- Jun 2022
<ul style="list-style-type: none"><li>Created a visualizer to visualise the underlying principles of various path finding and sorting algorithms</li><li>Used the <b>pygame</b> library to draw the interface of the application and to take inputs from keyboard or mouse</li><li>Supports path finding algorithms such as <b>A-star</b>, <b>Breadth-first search (BFS)</b> and <b>Depth first search (DFS)</b></li><li>Supports sorting algorithms such as <b>Bubble-Sort</b>, <b>Insertion-Sort</b> and <b>Merge-Sort</b> in, Source code available on <b>Github</b></li></ul>	

## COMPETITION/CONFERENCES

- **2023:** Secured Global Rank of **787** among **8.5k+** participants in Google Farewell Round A (ID- RajdeepMaji)
- **2023:** Secured Global Rank of **167** out of **29k+** participants in Div3 round #863 of codeforces (ID- Crompton\_15dec)
- **2023:** Overnite, Kshitij, IIT Kharagpur:Amongst top-**30** teams who qualified for Overnite Finals, an ACM certified event
- **2022:** Secured Global Rank of **34** out of **2.2k+** participants in Coding Velocity by Pnapao Private Limited
- **2022:** Secured Global Rank of **107** out of **17k+** participants in Biweekly Contest 93 of leetcode (ID- rajdeep\_maji)
- **2022:** Secured Global Rank of **116** out of **22k+** participants in Newton's coding challenge August (ID- Crompton)
- **2022:** Secured Global Rank of **93** and **126** in Starters 65 div.2 and August Lunchtime div.2 respectively in Codechef
- **2022:** Secured Global Rank of **472** among **9.5k+** participants in Google Kick Start' 22 Round F (ID- RajdeepMaji)

## COURSEWORKS

- **Computer Science** : Algorithms, Programming and Data Structure, Programming and Data Structure Laboratory
- **Mathematics** : Probability and Statistics, Linear Algebra and Optimization Model, Numerical and Complex Analysis
- **Electronics** : Signals and Systems, Digital Electronic Circuit, Digital Signal Processing, Communication-I

## SKILLS AND EXPERTISE

- Leetcode-**2163(Knight, rajdeep\_maji\*)**, Codechef-**1972(4 Star, Crompton\*)**, Codeforces-**1669(Expert, Crompton\_15dec\*)**
- **Languages:** Proficient : C++, C | Familier : Python, Flask, Jinja, HTML, CSS, Javascript, EJS, 8051 Assembly language
- **Software & Operating System** : Git, Github, Microsoft Office, Windows, Matlab, TinaTI, LTSpice, HFSS

## POSITON OF RESPONSIBILITY

<b>Junior Executive Member   Gopali Youth Welfare Society, IIT Kharagpur</b>	Jan 2021- Sept 2021
<ul style="list-style-type: none"><li>● A Non-Governmental Organization run by team of students in association with the professors of IIT Kharagpur</li><li>● Conducted online weekly workshops for teachers on how to ensure effective online teaching during the pandemic</li><li>● Content writer for social media handles of the society which has more than <b>20000</b> followers on Facebook</li><li>● Successfully planned and executed <b>3-day long challenge</b> during logo launch that experienced <b>1000+</b> participations</li></ul>	

## EXTRA CURRICULAR ACTIVITIES

- Served as a **cadet** in **3 Bengal Tech AIR SQN NCC** (National Cadet Corps) at IIT Kharagpur for 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
- **Subject-Matter Expert (SME)** in Advanced Maths at Chegg Inc. from previous two years
- Participated in Inter-School Science Exhibition and secured 2nd position out of **30+** participations