



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	B.TECH	IIT Kharagpur	8.31 / 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

- Price Tracking App :** [June'22 - July' 22]
- Created a price tracker with the help of inbuilt **python** libraries and tracked the prices of the items displayed on Flipkart website using the corresponding product's URL and currently the app is fully operational on local devices
  - Used **requests** library for scraping and **BeautifulSoup** for parsing data i.e. current price from the website
  - Built the user interface using **Flask** and **python** to accumulate the user data and store it in a database. The app is responsive in nature and supports both addition of multiple product's URL and cancellation of product tracking
  - Used **SMTPLIB** and **SSL** Module for email notification once price of product drops the threshold amount
- Searching and Sorting Visualizer :** [May' 22 - June' 22]
- Created a **visualizer** to visualize different searching and sorting algorithms using **pygame** modules of **python**
  - Supports pathfinding algorithms such as **A-Star**, Breadth-First Search (**BFS**) and Depth-First Search (**DFS**)
  - Supports different sorting algorithms such as the **Bubble-Sort**, **Insertion-Sort** and **Merge-Sort** algorithm
  - Used **pygame** library to draw the interface and take inputs from keyboard and mouse. Supports **customization** of search grid to add barriers and trace paths. Addition and deletion of blocks from grid are feasible

## COMPETITION/CONFERENCE

- 2022:** Secured Global Rank of **34** out of **2200+** participants in Coding Velocity by Pnapaa Pvt Ltd (ID- Crompton)
- 2022:** Secured Global Rank of **93** and **126** in Starters 65 and August LTtime resp.in Codechef (ID- crompton)
- 2022:** Secured Global Rank of **107** out of **17000+** participants in Biweekly Contest 93 of leetcode (ID- rajdeep\_maji)
- 2022:** Secured Global Rank of **116** out of **22000+** participants in Newtons coding challenge August (ID-Crompton)
- 2022:** Secured Global Rank of **353** out of **11000+** participants in Div3 round #805 of codeforces (ID- rajdeep\_maji)
- 2022:** Secured Global Rank of **472** among **9500+** participants in Google Kick Start Round F (ID- RajdeepMaji)

## TRAINING

- AZ201 : Applied Algorithms and Data Structures | AlgoZenith** [Dec' 21 - Mar' 22]
- Completed 16 weeks of live training and acquired knowledge about the C++ programming language and DSA.
  - Learnt about various problem-solving paradigms like Greedy, Dynamic Programming, Graphs, Segment trees etc.
  - Solved more than 250 problems on the platform to get a clear grasp on different Data Structures and Algorithms.

## SKILLS AND EXPERTISE

- Languages :** Proficient : C++, C | Familier : python, Flask, Jinja, HTML, CSS, Javascript
- Software & Operating System :** Git, Github, Microsoft Office, Windows, Matlab, Tina-TI, LT-Spice, HFSS
- Peak rating :** Codechef(**1972**, crompton), (Leetcode( **1873**(Knight),Codeforces ( **1529**(Specialist))),rajdeep\_maji)

## COURSEWORK INFORMATION

- Computer Science:** Algorithms | Programming and Data Structures (Theory & Laboratory) |
- Mathematics:** Probability and Statistics | Linear Algebra, Numerical, Complex Analysis | Advanced Calculus
- Electronics:** Signals and Systems | Digital Electronics Circuits | Communication-I | Digital Signal Processing |

## POSITIONS OF RESPONSIBILITY

- Junior Executive Memeber | Gopali Youth Welfare Society** [Jan' 21 - Sep' 21]
- Non-Governmental Organization run by team of students and professors of IIT Kharagpur
  - Conducted online weekly workshops for teachers on how to ensure effective online teaching during the pandemic
  - Content writer for social media handles of the society which has more than **20000** followers on Facebook
  - Successfully planned and executed 3-day long challenge during logo launch that experienced **1000+** participations

## 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 one year
- Participated in Inter-School Science Exhibition and secured 2nd position out of 30+ participations