RAJDEEP MAJI | 20EC10065

ELECTRONICS & ELEC. COMM.ENGG. (B.Tech 4Y)

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 using the corresponding product's URL and currently the app is fully operational on local devices
- Used **requests** library for scraping, **BeautifulSoup** for parsing data i.e. current price of the product
- 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
- Supports pathfinding algorithms such as **A-Star**, Breadth-First Search **(BFS)**, Depth-First Search **(DFS)**
- Supports different sorting algorithms such as the **Bubble-Sort**, **Insertion-Sort** and **Merge-Sort**
- 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 **472** among **9.5k+** participants in Google Kick Start' 22 Round F *(RajdeepMaji)*
2022: Secured Global Rank of **93** and **126** in Starters 65 and August LTtime respectively in Codechef *(crompton)*
2022: Secured Global Rank of **107** out of **17k+** participants in Biweekly Contest 93 of leetcode *(rajdeep_maji)*
2022: Secured Global Rank of **353** out of **11k+** participants in Div3 round #805 of codeforces *(rajdeep_maji)*
2022: Secured Global Rank of **34** out of **2.2k+** participants in Coding Velocity by Pnapaao Pvt. Ltd
2022: Secured Global Rank of **116** out of **22k+** participants in Newton's coding challenge August

TRAINING

AZ201 : Applied Algorithms and Data Structures | AlgoZenith   **[Dec' 21 - Mar' 22]**
- Completed 16 weeks of live training and acquired knowledge about 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
- **Peak rating** : Codechef(**1961**, crompton), (Codeforces (**1529**(Specialist)), Leetcode(**1873**(Knight)), 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 Organisation run by team of students and professors of IIT Kharagpur
- Conducted online weekly workshops for teachers on how to ensure effective online teaching during pandemic
- Content writer for social media handles of the society which has more than **20k** followers on facebook
- Successfully planned and executed 3-day long challenge during logo launch that experienced **1k+** 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