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 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 Pnapaao Pvt Ltd (ID- Crompton)
2022: Secured Global Rank of **93** and **126** in Starters 65 and August Lunchtime 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 | ProgrammingandDataStructures (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 executed3-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