ROHAN RAJ

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Education

INDIAN INSTITUTE OF TECHNOLOGY (IIT) Jodhpur , Rajasthan	**2021 - 2025**
● BTech in Electrical Engineering	(expected)
City Montessori School, Lucknow,	**2019 - 2021**
● *ISC (Class XII) & ICSE (Class X)*	

Skills

C/C++ | JavaScript | NodeJS | ExpressJs | React | Redux | Formik | MongoDB | MaterialUi | Git | REST | Full Stack Developer |
Python | Numpy | Pandas | Scipy | NLTK | Machine Learning | Competitive Programming |

Work Experience

Project Mentor | IITJ   **Aug 23 - Dec 23**

- Pertaining to my performance, I was appointed the **Project Mentor** . This role demonstrated both technical expertise and mentoring skills, contributing to project success.
- Explored advanced methods to enhance system security and further stabilize matching algorithms, contributing to the robustness of the TA Allocation System .

Projects

TA ALLOCATION SYSTEM | **Github**   **May 23 - Aug 23**

An automated system of matching TA's with their corresponding course according to their preference.

- Extended the **Stable Matching Algorithm** to ensure that the matching is optimal and the satisfaction of TA and the faculties would be as high as possible.
- Implemented robust CRUD functionality that efficiently adds new entries to a database.
- Tech. Stack : **Javascript, NodeJs, HTML/CSS , MongoDB, REST.**

WESecure | **Github**   **July 22 - Nov 22**

A web application built using **EJS, NodeJS, MongoDB, and Bootstrap.**

- Built an automated visitor management system aimed towards monitoring status of elderly individuals at home via live video feed.
- Developed a responsive website with the primary objective of raising awareness among visitors about our aim while ensuring a seamless user experience.
- **Achieved the Runners-Up position in a Hackathon organized by Infosys in collaboration with Chandigarh Police, showcasing Teamwork and innovative problem-solving skills.**

SHOPSPHERE | **Github**   **Nov 23 - Present**

A robust , interactive, and user-friendly shopping web-app built using ***React , Redux , NodeJs , REST*** *.*

- Successfully integrated Stripe payment gateway with Node.js to facilitate secure and seamless financial transactions within the application.
- Implemented an intuitive cart management system, enhancing user experience through the seamless removal of items from the shopping cart.

SENTIMENT ANALYSIS | **Github**   **April 23 - May 23**

The project was done under the course Pattern Recognition and Machine Learning (PRML) .

- Developed a machine learning model to accurately detect hate speech in social media data.
- Utilized **state-of-the-art** machine learning algorithms such as **Support Vector Machines (SVM), Naive Bayes Classifier , Ensemble learning, and deep learning models.**
- **Tools & technologies** : various Python libraries, e.g., NLTK (Natural Language Toolkit), Tfidf Vectorizer, Sklearn,Seaborn .

Academic and Extracurricular Achievements

- **Runners Up (2nd)** in Cyber Swachata Hackathon organized by INFOSYS in association with Chandigarh Police .
- Solved more than **400** problems on various coding platforms like GFG (GeeksforGeeks) , leetcode, and codechef .
- Successfully Cleared **NTSE (National Talent Search Examination) Stage 1.**

Position of Responsibility

Varchas (Sports Fest) | Assistant Head	**Nov 22**
Prometeo (Tech Fest) | Assistant Head,	**Mar 23**