# JAI MAROTHIYA | 20ME30023

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## ACADEMIC PERFORMANCE

| Year | Degree | Institute | CGPA/Marks |
|------|--------|-----------|------------|
| **2020** | Integrated M. Tech in Mechanical Engineering | IIT Kharagpur | 8.35/10 |
| **2020** | Class XII (CBSE) | Central Academy, Ajmer | 92.6% |
| **2018** | Class X (CBSE) | DMS, Ajmer | 88.4% |

- Achieved Rank in the top 3% **in JEE Advanced, 2020** among **2,50,000 qualified candidates** conducted by The Government of India
- Achieved a Percentile of **99.23 in JEE Mains, 2020** among **11,50,000 appeared candidates** conducted by National Testing Agency (NTA)

## PROJECTS/INTERNSHIPS

| Summer Internship | Web-Development | July 2022 – July 2022 |
|---|---|---|

*Completed one month Web-Development summer internship at **WebTechStreet** under the guidance of Mr. Anand Upadhay(Founder).*
- During the period of this internship at WebTechStreet, I had learnt various technologies and exposed to different internal processed.
- Created a lot of templates/landing-pages, like E-commerce-website, Hair-Saloon-website and make Calculator with the use of **Javascript**.
- Created the front-end for several new feature in the website including proper navigation bar, landing page on the Homescreen of website

| Self Project | Online Seafood Market Portal | Aug 2022 – Sep 2022 |
|---|---|---|

*Developed a web application that provides seafood sellers a better platform to interact with their customers in more proficient way.*
- Incorporated use case such as adding and removing various kinds of seafood from the inventory with proper login facility for maintainer
- Developed this application using **ReactJS, CSS, HTML** and **Firebase**. GitHub-repository  https://github.com/Jai-Marothiya/React-Project

| Self Project | Snake Game | July 2022 – Aug 2022 |
|---|---|---|

*Developed a snake game with proper graphics design and displayed a dynamic leaderboard of highest and present score of the user's*
- Created a responsive snake game using **javascript** which takes commands using key from your keyboard to move the snake on the board
- Applied the **request animation frame method** and the event listeners to make the page respond to the user's input in a very smooth way
- Designed and created the application using **HTML, CSS and Javascript** and deployed the site through the **Netlify** to keep track of changes

| Summer Project | DIY Lab on Computer Vision | May 2022 – July 2022 |
|---|---|---|

*Worked under Prof. Vikrant Racherla (Dept. of Mechanical Engineering) with a team of 5 Members for six weeks in the summer break*
- Developed an **Attendance Monitoring System**, an efficient system that monitor and collect the attendance of students on a regular basis
- Link our database with telegram by which we can send the output image file and resulting CSV file to telegram of the respective student.
- Coded the model in **python** using various libraries such as **OpenCV** and **NumPy** for image recognition also manage lot of hardware work.

| Semester Project | Automatic Water Level Controller| DIY Project | June 2021 – July 2021 |
|---|---|---|

*Worked under Prof. Arkopal K Goswami (Dept. of Mech. Engineering) with a team of 6 Members & awarded as the best sem project*
- Developed an **Automatic Water Level Controller**, an efficient system that monitor and control the circuit on the basis of level of water.
- Use of an **HC-SR04** Ultrasonic Sensor to communicate between Arduino and motor and Code for Arduino in **Tinker CAD** and **Arduino IDE**

## POSITION OF RESPONSIBILITY

| General Secretary | Lala Lajpat Rai Hall Of Residance, IIT Kharagpur | Aug 2022 – Present |
|---|---|---|

*Worked on three major fronts: Networking, Corporate Engagement and Event Management to ensure smooth working of the Hall*

**Teamwork**
- Elected as the General Secretary Mess by the **330 boarders** of Lala Lajpat Rai Hall Of Residance, IIT Kharagpur.
- Created and Managed the budget of **Rs 15,40,000** for academic session 2022-23, distributed amongs the 330 boarders.
- Planned and executed a total budget of around **Rs. 45,40,000** for effective management of meals for all the boarders.
- Prepared the artwork based on theme of **Illumination 2022** along with the team of Hall and decorated the places also.

| Secratary Bridge | Lala Lajpat Rai Hall Of Residance, IIT Kharagpur | Aug 2021 – June 2022 |
|---|---|---|

**Teamwork**
- Managed, leaded and coordinated the team of 10 members of the LLR Hall for Inter Hall Bridge Competition.
- Organised **20+** practice sessions for all the team members for the different events like **Open IIT Bridge Competition**.

## SKILLS AND COURSES

**Technical Skills**
- **Languages:** Proficient in: C, C++, JavaScript, HTML, CSS _Familiar with: Python, Java, MATLAB, MySQL, Command Prompt
- **Frameworks/Libraries:** React, Bootstrap, SASS, Tailwind, C++ STL
- **Softwares**: Canva, Microsoft Visual Studio, Google Colab, Netlify, AutoCAD, Microsoft Office, Excel, Word, Git/GitHub
- **Relevant Courses:** Programming and Data Structures *, Advanced Calculus, Linear Algebra, Engineering Drawing and Computer Graphics*, DIY Project*, Theory of Partial Differential Equation, Transform Calculus, Operation Research.
- Completed an Online Course on JavaScript programming which helped me master the basic concepts of JavaScript

**Courses**
*Courses with lab components

## EAA / AWARDS / COMPETITIONS

- Committed to **#100DaysOfCode** on Twitter and successfully completed and gained a lot of knowledge and consistency through the same.
- Got **Bronze Medal** in Inter Hall Basketball Tournament 2021-2022, IIT Kharagpur after competing against 15 other Halls Basketball teams.
- Student Volunteer at **National Service Scheme (NSS) IIT KHARAGPUR** UNIT 15 and actively involved in various **Social Works & Activities**
- Participated in various **Social, Cultural, Sports & Technology** events organized by **LALA LAJPAT RAI HALL OF RESIDENCE, IIT KHARAGPUR**
- Secured **First positions** in the **Basketball** and **Football** in the Inter Demonstration School Meet, organised by DMS Ajmer in 2017-2018

!self declaration by the student