



JAI MAROTHIYA | 20ME30023

Department of Mechanical Engineering | Lala Lajpat Rai Hall of Residence
Indian Institute of Technology, Kharagpur – 721302

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ACADEMIC PERFORMANCE

Year	Degree	Institute	CGPA/Marks
2020	Integrated M. Tech in Mechanical Engineering	IIT Kharagpur	8.47/10
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
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Completed a one-month Web-Development summer internship at **WebTechStreet** under Mr. Anand Upadhyay's (Founder) guidance.

- During this internship at WebTechStreet, I learned various technologies and was exposed to different internal processes.
- 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 features in the website including a navigation bar, landing page on the home screen of a website

Project	Online Seafood Market Portal	Aug 2022 – Sep 2022
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Developed a web application that provides seafood sellers a better platform to interact with their customers in a more proficient way.

- Incorporated use cases such as adding and removing various kinds of food from the inventory with a login facility for the maintainer
- Developed this application using **ReactJS, CSS, HTML, and Firebase**. GitHub-repository <https://github.com/Jai-Marothiya/React-Project>

Project	Snake Game	July 2022 – Aug 2022
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Developed a snake game with proper graphics design and displayed a dynamic leaderboard of a highest and present scores of the users

- 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 listener 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 **Netlify** to keep track of changes

Summer Project	DIY Lab on Computer Vision	May 2022 – July 2022
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Worked under Prof. Vikrant Racherla (Dept. of Mech. Engineering) with a team of 5 Members for six weeks during the summer break

- Developed an efficient **Attendance Monitoring System** that monitors and collects 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 the telegram ID of the student.
- Coded the model in **Python** using libraries such as **OpenCV** and **NumPy** for image recognition and also manage a lot of hardware work.

Semester Project	Automatic Water Level Controller DIY Project	June 2021 – July 2021
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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** system that monitors and controls the circuit on the basis of the 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 Residence, IIT Kharagpur	Aug 2022 – Present
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Worked on three major fronts: **Networking, Corporate Engagement, and Event Management** to ensure the smooth working of Hall

Teamwork	<ul style="list-style-type: none"> Elected as the General Secretary Mess by the 330 Lala Lajpat Rai Hall of Residence boarders, IIT Kharagpur. Created and managed the budget of Rs 15,40,000 for the acad. session 2022-23, distributed amongst 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 the theme of Illumination 2022 along with the team of Hall and decorated the places.
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Secretary Bridge	Lala Lajpat Rai Hall of Residence, IIT Kharagpur	Aug 2021 – June 2022
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Teamwork	<ul style="list-style-type: none"> Managed, led, 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 different events like Open IIT Bridge Competition.
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SKILLS AND COURSES

Technical Skills	<ul style="list-style-type: none"> Languages: Proficient in: C, C++, JavaScript, HTML, and CSS Familiar with: Python, MATLAB, MySQL, Command Prompt Frameworks/Libraries: ReactJS, React-Native, Bootstrap, SASS, Tailwind, C++ STL Software: Canva, Microsoft Visual Studio, Google Collab, 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 by the same.
- Got **Bronze Medal** in Inter Hall Basketball Tournament 2021-22, 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 **Cultural, Sports & Technology** events organized by **LALA LAJPAT RAI HALL OF RESIDENCE, IIT KHARAGPUR**
- Secured **First positions** in **Basketball** and **Football** in the Inter Demonstration School Meet, organized by DMS Ajmer in 2017-2018