



**Mayuresh Lohani**

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Metallurgical and Materials Engineering Department

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**GitHub**

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## EDUCATION

| Degree           | Institute                                | CGPA/Percentage | Year           |
|------------------|--|-----------------|----------------|
| B.Tech           | Indian Institute of Technology Kharagpur | 8.38/10         | 2021 - Present |
| Senior Secondary | Litera Valley Zee School                 | 94.4%           | 2021           |
| Matriculation    | Litera Valley Zee School                 | 96.4%           | 2019           |

## PROJECTS

**COMPOSIT'23 Website | Team Project | IIT Kharagpur** **Jan 2023 - Mar 2023**

- Developed a visually appealing, responsive web frontend using **HTML**, **CSS**, and **React**, ensuring seamless cross-device experience
- Enhanced website functionality and engagement by implementing interactive features and **dynamic content** using React components
- Collaborated effectively for seamless frontend-backend integration, ensuring efficient data flow and optimal website performance

**IPL WIN Predictor | Self Project** **May 2023**

- Developed IPL Win Predictor using **Kaggle** dataset with **80.64% accuracy**, performing feature extraction to obtain essential columns
- Created train and test datasets, utilizing **ColumnTransformer**, **OneHotEncoder**, and **Pipeline** techniques for efficient data preprocessing
- Employed a **Logistic Regression** algorithm to train the model and calculate its accuracy in accurately predicting IPL matches outcome
- Expanded project by developing and deploying the application on the **Render** platform, facilitating user interaction and match predictions

**Movie Recommender System | Self Project** **Jun 2023**

- Developed a movie recommender system using a dataset from Kaggle, containing movie information, such as titles, genres, and actors
- Performed thorough **data preprocessing** to ensure dataset suitability, utilized **feature extraction** and **text vectorization** for numerical representation of movie features, and enabled accurate recommendations by calculating movie similarities using **cosine distance metric**

**Foreign Training Portal | Team Project | International Relations Cell | IIT Kharagpur** **Aug 2022 - Oct 2022**

- Collaboratively curated 50+ templates for Landing, Login, and Projects Pages, facilitating the redesign of the Foreign Training Portal
- Redesigned portal's Landing Page with **HTML**, **CSS**, and **Django**, ensuring seamless template integration, responsiveness, and color theme
- Enhanced the Register/Login form for responsiveness and implemented an alert feature using **Javascript** for the 'Request a Topic' button

## POSITION OF RESPONSIBILITY

**Student Member | Junior Associate | International Relations Cell | IIT Kharagpur** **Mar 2022 - Jun 2023**

- Revamped the Foreign Training Portal, resulting in INR **21.56 M** funding, with **220+** students securing **58** International Research Projects, demonstrating a substantial improvement over the previous statistics of 150+ students, 52 Projects, and INR 9.8 M funding
- Managed Foreign Training Panel Discussion for **250+** attendees seeking research internships abroad, featuring 6 experienced seniors
- Organized Europe Semester Away/Exchange Programs Panel for **280+** students, featuring 5 experienced panelists from different IITs
- Created a 100+ sponsor database, managed event logistics, conducted university SWOT analysis to boost global reach for IIT Kharagpur

**Sub-Head | Associate | COMPOSIT | IIT Kharagpur | Department Fest** **Jan 2022 - Apr 2023**

- Hosted 50+ students, teachers, and esteemed guests in the Opening Ceremony of India's largest student-run Materials Science Fest
- Developed and launched COMPOSIT's 28th edition website, attracting **1000+** registrations and providing comprehensive fest details
- Drafted the problem statement by going through more than 5 research papers and articles for Case Study on Nanosatellites and Cubesats
- Collaboratively curated a set of **200+** thought-provoking quiz questions for Enigma and School Quiz events across diverse domain

## SKILLS AND EXPERTISE

- Languages and Databases:** C++ | HTML | CSS | Javascript | Bootstrap | Git | React | Django | SQL | Node JS | Mongo DB
- Softwares and Libraries:** Python and its Libraries | VS Code | Jupyter Notebook | MS Excel | MS Word | MATLAB | Canva | Github

## CERTIFICATIONS

**Machine Learning and Artificial Intelligence Certification**

- Participated in 8-week ML and AI course by IITGai.club, IIT Guwahati, acquiring in-depth knowledge and practical skills in the field
- Actively engaged in the course, developing a basic understanding of ML and AI principles through material, lectures, and assignments

## COURSEWORK INFORMATION

- Miscellaneous:** Machine Learning Foundation and Application | Data Structures | Economics | English for Communication
- Mathematics:** Probability and Statistics | Matrix Algebra | Linear Algebra | Calculus | Numerical Analysis | Complex Analysis
- Core:** Computer Applications in Metallurgical Processes | Materials Engineering | Metallurgical Thermodynamic

## EXTRA CURRICULAR ACTIVITIES

**Hult Prize OnCampus Round | International Social Entrepreneurship Competition**

- Organized and managed 3 online and 1 offline pre-Hult Prize preparation sessions, attracting a turnout of **50+** participants in each of them
- Proactively reached out to over 10+ potential judges, resulting in securing 1 confirmed acceptance for the Hult Prize OnCampus Round
- Managed the Hult Prize OnCampus Round, overseeing successful execution of the event with **40+** registrations, **16** teams, and 5 judges

**Sports**

- Finished within the **top 15** positions out of a competitive field in the Lawn Tennis Open IIT Competition organized at IIT Kharagpur
- Represented Litera Valley School commendably in Inter-School Tennis Tournament, competing against 10+ schools of Patna in class 6th

**Competitions**

- Secured **5th** place out of 11 competing teams in the **Hack-an-Intern** Hackathon, organized by 'Kode-in-KGP' in collaboration with 'Density'
- Participated in Coding Ninjas' **CodeKaze** contest in June 2023 and Kharagpur Data Analytics Society's Data Science Hackathon 2022
- Analysed and solved Zomato-Uber Eats India acquisition case for MnAnalyse 2023 **Case Competition** organised by FEC club, IIT Guwahati