



# Riddhi Jain

Bachelor of Technology  
in Electrical Engineering  
Indian Institute Of Technology, Ropar

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## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.76 (Till 6th Sem)	2020-2024
Senior Secondary	Rajasthan Board of Secondary Education	91%	2019
Secondary	Indian Certificate of Secondary Education	92.6%	2017

## EXPERIENCE

- **Ceremorphic Technologies Pvt. Lim.** May 2023 - July 2023  
*ACustom Design Intern* Hyderabad
  - Modeling of experimental molecular kinetics using analog circuits in 16nm Finfet technology using Cadence Software
  - Built a Differential Equation Solver for Biochemical Reactions

## PROJECTS

- **MultiModel Learning using AI** 2023, Ongoing  
*Dr. Santosh Kumar Vipparthi, IIT Ropar* Github
  - Used to enhance capabilities such as object recognition but also extends to emotion recognition, where facial expressions in images can be paired with corresponding audio cues or textual sentiment analysis
- **Department Website Portal** 2023, Ongoing  
*Dr. Santosh Kumar Vipparthi, IIT Ropar* Website
  - Added restricted login feature linked with database for enabling changes through the website itself.
  - Made the website work on real-time using HTML and PHP
- **LRU Cache Design** 2022  
*Self* Github
  - Used LRU- Cache Algorithm to get updates on recently sent or deleted messages.
- **House Price Predictor** 2021  
*Self* Github
  - Used real data set to solve a common problem of Real Estate Company of predicting house prices based on a certain set of features and deciding whether to invest in it or not.
- **Push Relabel** 2022  
*Self* Github
  - Implemented the Push Relabel Algorithm for Maximum Flow Problem.
  - Tested and compared huge random input data results with other algorithms.

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, Java, JavaScript, PHP
- **Soft Skills:** Management, Team Work, Communication, Leadership
- **Technical Skills:** MATLAB, Tinkercad, HTML, CSS, Machine Learning, React, Django, SQL
- **Other Skills:** Web Development, Software Development, Data Structures and Algorithms, Competitive Programming, Excel, MS Office

## KEY COURSES TAKEN

- **CSE:** Fundamentals of Data Science\*, Programming for Everybody, Machine Learning, Data Structures and Algorithms using C++, Operating Systems, Database Management System
- **Mathematics:** Linear Algebra, Real Analysis and Advanced Calculus, Differential Equations, Probability, and Stochastic Processes
- **Electrical and Electronics:** Digital Electronics, Analog Circuits, Communication Engineering, Basic Electronics, Circuit Theory, Control Engineering, Signals, and Systems

## POSITIONS OF RESPONSIBILITY

- **Event Head, Lashkara,** Zeigiest, IIT Ropar February. 2023 - March. 2023
- **Event Coordinator, Epicure Club,** IIT Ropar Apr. 2021 - Apr. 2021
- **Volunteer,** Pehchaan Ek Safar, IIT Ropar 2021
- **Associate,** Society Of Women Engineers, IIT Ropar 2020