

# DEEPALI SINGH

@deepalisingh2k@gmail.com ☎+91 8058041116 in/deepalisingh11 📷/deepalisingh11

## EDUCATION

- Indian Institute of Technology MandiJuly 2019 - June 2023
- **BTech. in Computer Science and Engineering, CGPA 9.05**
  - **Relevant Coursework:** Data Structures and Algorithms, Information and Database Systems, Data Science - Probability, Statistics & Machine Learning, Applied Databases Practicum, Computer Organisation, Introduction to Deep Learning, Machine Learning in Crowd Modelling & Simulation (Praktikum at TU Munich)

## EXPERIENCE

- Technical University of MunichOct 2021 - March 2022  
*Semester Exchange*
- Spent the 5th semester of my Bachelor's as Winter Semester 21/22 at TU Munich - which is one of the top technical universities in EU.
- Introduction to Deep Learning [Grade: 1.7]
  - Master's Praktikum - Machine Learning in Crowd Modelling & Simulation [Grade: 1.0]
  - Data Visualization Seminar [Grade: 1.3]
- Indian Institute of Technology MandiJuly 2021 - Nov 2021  
*Teaching Assistant*
- Teaching Assistant for IIT Mandi Courses CS202 - Data Structures & Algorithms under Dr. Varunkumar Jayapaul and IC252 - Data Science II under Dr. Satyajit Thakor.
- The Girl CodeJuly 2020 - Sept 2021  
*Community Manager*
- The Girl Code is a non-profit organisation that aims to introduce young girls to the world of programming by hosting workshops, guiding, and providing resources.
  - Single-handedly built, managed, and expanded the online community which is now thriving with 2000+ girls mainly from India, Singapore, and the USA.
  - Hosted programming workshops in Data Science and Machine Learning.
  - Coordinated with Chapter-Leads and coding YouTubers to curate the online workshops in programming and supervised the interns as the workspace admin.

## SKILLS

- **Programming Languages:** Python, C++, PHP, JavaScript
- **Frameworks/Technologies:** MySQL, NodeJS, MongoDB, Firebase, Flask<sup>0</sup>
- **Other Tools:** Git, GitHub, Jupyter Notebook, LaTeX, Socket.IO<sup>0</sup>

## KEY PROJECTS

- Wiki Images [github link]Oct 2020 - September 2021  
*under Dr. T A. Gonsalves - Former Director, IIT Mandi*
- Developed a python script to scrape all the Wikipedia pages and retrieve useful information about images posted in Wikimedia Commons by a user.
  - This work enabled the Wikimedians community of IIT Mandi to fetch the needed data 10x faster and is now widely used amongst them.
  - Working on v1.3.6 to reduce the request rate and avoid race condition while using module threading. *(Python, BeautifulSoup)*
- IPL Auction Platform [website link]July 2020 - Sept 2020  
*ECell Event*
- Designed and implemented a standalone website to manage the entire auctioning of players in the Indian Premier League.
  - Implemented real time communication with web-sockets using firestore and the back-end controlled by an admin panel with features such as player management, accounts management for teams, and live leaderboard.
  - Expanded it as a quiz platform to conduct various other college events. *(Python, Firestore, ReactJS)*
- Dehla Pakad [website link]July 2020  
*Group Project*
- Built a web app multiplayer card game with online lobby in lockdown 1.0 when couldn't find online version of the game anywhere on the internet. *(Flask-Socket.IO, SQLite3, Python, JavaScript)*

## ACADEMIC ACHIEVEMENTS

- Academic Excellence Award in CSE at IIT Mandi for academic year 2020-2021
- Scored 96.2% in 12th CBSE Boards – in top 1 percentile of 12th CBSE Board Exam in 2019
- Won first prize in Hack36 – a 36 hours long IIT Mandi hackathon as all women team [GitHub Link]
- First Runner Up in Enigma – a 12 hours long Machine Learning hackathon by Astrax'21 IIT Mandi
- First Runner Up in ACM-W Algorithm Contest'21 by ACM-W IIT Mandi [YouTube Link]

RESPONSIBILITIES

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- **Core Member, Programming Club:** Actively contributed to the programming community of the college and co-organised FrostHack’21.
- **Media Head, Literary Society:** Monitored the media presence, monthly newsletters, and e-magazines.
- **Social Media and Outreach Head, Hiking and Trekking Club:** Handled online accounts, curated content, and managed outreach.
- **Mentor, Guidance and Counselling Service:** Mentor for the batch 2024 and 2025 joining the B.Tech program at IIT Mandi.

EXTRA-CIRRUCULAR

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- Represented IIT Mandi in Group Dance and Creative Writing at Inter-IIT Cultural Meet 4.0 at IIT Bombay
- Completed Junior Diploma in Kathak Dance at the age of 8
- Core Member of Literary Society, Dance Club, Hiking and Trekking Club