DEEPALI SINGH

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EDUCATION

Indian Institute of Technology Mandi   July 2019 - June 2023

- **BTech. in Computer Science and Engineering, CGPA 9.01**
- **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

Samsung R&D Bangalore   June 2022 - Present
Software Development Internship

- Working in Samsung Ads team to convert batch data processing system to a Spark streaming application using distributed systems.
- Major challenges include de-duplication and anonymisation of Ad tracking data in a stream process.

Technical University of Munich   Oct 2021 - March 2022
Semester Exchange

- Spent the 5th semester of my Bachelor's as Winter Semester 21/22 exchange student at TU Munich - one of the top technical universities in EU.
- Successfully completed course on Introduction to Deep Learning, Master's Praktikum on Machine Learning in Crowd Modelling & Simulation, and a seminar on Data Visualization.

Indian Institute of Technology Mandi   July 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 Code   July 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++, Scala, JavaScript
- **Frameworks/Technologies**: MySQL, NodeJS, MongoDB, Firebase, Spark, Flask[0]
- **Other Tools**: Git, GitHub, Jupyter Notebook, LaTeX, Socket.IO[0]

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 communnity 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

- **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

- 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