

RIDAM NAMA

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[Codeforces](#)

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EDUCATION

B. Tech. Data Science | Indian Institute of Technology, Mandi

📅 Nov 2020 – Present(till June 2024)

- **Relevant Courses:** Advanced Deep Learning, Data Structures and Algorithms, Data Science- 1,2,3 (Python, Probability & Machine Learning), DataBase Management System, Linear Algebra, Data Handling and visualization (Data Preprocessing), Computer Vision, Optimisation in Data Science, Statistical foundation for data science, Mathematical Foundation of Computer Science, CN, OS.
- **Responsibilities:** Web Development volunteer, collaborated with a team of 4 people to build and successfully host a website for an IIT Mandi event 2021-22, Chess team captain of IIT Mandi 2023.

WORK EXPERIENCE

Software Engineer Intern | Microsoft India (R & D), Bangalore

June-July, 2023

- Worked with NFSv3 (Network File System) team of Azure Storage (Cloud & AI) on finding code coverage and implementing fuzzed test cases - (**C++**, **Object Oriented Programming System**).
- Developed Comprehensive fuzzed test cases for various NFSv3 procedures (i.e. Read/Write file).
- Utilized [Microsoft Code Coverage tool](#) to analyze code coverage on an pre-production tenant.
- Improved code coverage for the NFS Service from 65 % to 91.6 % across 25,000 lines of code.

Microsoft Engage | Intern Program | Mentee Position

May-June, 2022

- Designed and implemented a Raspberry Pi-based security system capable of person recognition.
- Employed a CNN model from scratch for face recognition and expression/object classification.
- Utilized build-in RNN model to analyze person behavior & used OpenCV for display purpose.
- Deployed the project as a user-friendly website ([link](#))(Flask, MySQL, TensorFlow, OpenCV, Python)

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, SQL
- **Data Science:** Artificial Intelligence, Natural Language Processing, Image Processing, Data Analytics.
- **Web Development:** PHP, Flask, MySQL(Relational Databases), HTML, CSS, JavaScript.
- **Relevant Libraries:** TensorFlow, Pandas, Matplotlib, Scikit-Learn, Numpy.
- **Frameworks/Tools:** Keras, VS Code, Git, Github, Object Oriented Programming.

PROJECTS

Body Metric [[Github link](#)] (Flask, MySQL, TensorFlow, HTML, CSS, JavaScript)

Sept-Oct, 2022

- Developed a website to monitor an individual's health by tracking their daily exercise routine.
- Implemented and trained a CNN model capable of identifying exercise type and their repetitions.
- Employed an ML Regression model to provide personalized health targets for the following day.
- Provides exercise type recommendations and appropriate repetitions to fulfill specific fitness goals.

Flight Ticket Tracker [[Github link](#)] (PHP, MySQL, HTML, CSS, JavaScript)

May-June, 2021

- Created an interactive website for booking flights with various time and date options.
- Provided information on flights for different airlines, and fares, and facilitated with payment processing.
- Leveraged APIs to seamlessly integrate payment processing functionalities into the website.

AWARDS & ACHIEVEMENTS

- Achieved 1244 Rating on [Codeforces](#) (Programming Platform), and 1850+ Raing on Leetcode.
- Secured a **runner-up position** in intra-college technical fest for website development.
- Got 2928 rank among 20,000+ participants in Round C, **Google KickStart 2022**.