



Riddhi Chatterjee

UNIVERSITY STUDENT

Details

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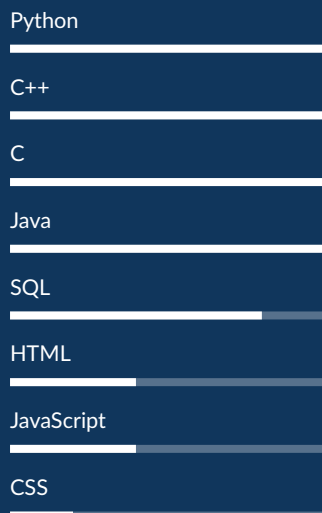
Links

[My portfolio](#)
[GitHub profile](#)
[LinkedIn profile](#)
[Codeforces profile](#)

Hobbies

Aviation
Photography

Programming language skills



Profile

3rd year IMTech (Integrated MTech) Computer Science and Engineering student at International Institute of Information Technology Bangalore, India.

From 1st year I am named in the Dean's Merit List of my university.

I am very passionate about machine learning and its various applications in the real world. Currently, I am having experience in computer vision and natural language processing, and would like to explore all facets of machine learning.

Education

Class X, M.P. Birla Foundation HR.SEC. School, Kolkata, West Bengal

Secured 95.4% (best of five subjects) in Class X, ICSE (Indian Certificate of Secondary Education) board exam

Class XII (Science branch), Global Public School, Ladpura, Kota, Rajasthan

Secured 95.2% in Class XII, CBSE (Central Board of Secondary Education) board exam

Academic performance in International Institute of Information Technology Bangalore

- Semester 1 SGPA : 3.60/4.00
- Semester 2 SGPA : 3.85/4.00
- Semester 3 SGPA : 3.88/4.00
- Semester 4 SGPA : 3.79/4.00

Current CGPA : 3.79/4.00

My university transcript is available [here](#).

Internships

Rehabilitation Exercise Quality Assessment project in collaboration with University Health Network (UHN), Toronto, Canada

The aim of this project is to use the power of machine learning to develop deep learning models for assessing the quality of rehabilitation exercises being performed by patients.

I have been working on this project since May, 2022.

The work I have done so far in this project is available [here](#).

Projects

- **Sentiment analysis project** - Using various natural language processing techniques and LSTMs (Long Short Term Memory)
- **Handwritten digit classification** - Using the MNIST dataset
- **Image classification** - Using the CIFAR-10 dataset
- **Simple Virtual Assistant in Python** - Secured 3rd rank in Task Automation category of ByteSynergy 2022 (annual tech fest of IIIT Bangalore)
- **Kryptext** - Secure communication app using RSA encryption in Python
- **Game using SDL library in C++**
- **Fault tolerant communication project in Java** - A project based on a simplified version of Byzantine Fault Tolerance
- **Image format converter (from bmp to tiff) in C**
- **Implementation of the IAS machine & assembler in Python**

Courses

AI/ML

- Database Systems
- Machine Learning
- Mathematics for Machine Learning

Data structures and Algorithms

- Introductory course on Data structures and Algorithms
- Design and Analysis of Algorithms

Programming

- Programming 1 (C & Python)
- Programming 2 (C++ & Java)

Mathematics

- Uni-variate and Multivariate Calculus
- Linear Algebra
- Probability and Statistics
- Discrete Mathematics
- Number theory

Networking and Communication

- Computer Networks
- Signals and Systems

Other core courses

- Introduction to Automata Theory and Computability
- Software Engineering
- Operating Systems
- Digital Design
- Computer Architecture
- Electrostatics, Magnetostatics & Quantum Mechanics

Humanities and Social Science

- Privacy in the Digital Age
- History of Ideas
- Technical Communication
- Economics

Extra-curricular Activities

Member of the Multimodal Perception Lab, IIIT Bangalore

The Multimodal Perception Lab focuses on human-centered sensing and multimodal signal processing methods to observe, measure, and model human behavior.

A link to the official website of the Multimodal Perception Lab is available [here](#).

Attended the 24th ACM International Conference on Multimodal Interaction (7-11 Nov 2022)

As a member of the Multimodal Perception Lab, IIIT Bangalore, I was allowed to attend the 24th ACM ICMI which was organized in Bangalore, India.