

MONJOY NARAYAN CHOUDHURY

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Education

International Institute of Information Technology Bangalore (IIITB)

November 2020 – July 2025

5 Year Integrated Masters of Technology in Computer Science (5 semesters out of 10)

Overall GPA: 3.86/4.00

Specialisation: Artificial Intelligence and Machine Learning (AIML)

Relevant Courses: Machine Learning, Maths for ML, Visual Recognition, Recommendation Systems, Linear Algebra, Probability and Statistics, Privacy in Digital Age, Database Systems

Experience

Web Sciences Lab - IIIT Bangalore

August 2022 – December 2022

Front End Developer Intern | React.js, tailwind-css

Bangalore, Karnataka

- Working to implement a reactive UI for the Navigated Learning Platform.
- Used Plotly.js along with React to create an interactive discourse map for learners and resources of a course.

IIIT Bangalore

May 2022 – July 2022

Summer Project Intern | SciPy, Pandas, Numpy

Bangalore, Karnataka

- Worked under Prof. Amit Chattopadhyay on studying the trends on changing norm types using Minkowski-Distance K-Means Clustering
- Implemented Minkowski K-Means Clustering with various centroid randomisation techniques from scratch to incorporate the need of changing norm definitions to draw conclusions on accuracy of centroids with respect to increase in the p norm.
- Tested and studied the results obtained on multi-dimensional data (32,64,128) for various types of L-P norms.

Projects

Global Warming Detection | Time-series analysis

February 2023 - Ongoing

- Used Google Earth Engine to extract land temperature data from MODIS LST data.
- Performed literature review to come up with a methodology to model Global Warming as a prediction task for metro cities in India.
- Attempted to model the land temperature as a time series using LSTMs and obtained an initial error of 2.8 Kelvin.

TextFlix | Recommendation Systems

February 2023 - March 2023

- Created a user prompt-based system for suggesting titles available on Netflix and Prime Videos.
- Used Sentence Transformers for generating feature vector to apply content-based filtering paradigm for recommendations.

Yahoo Troll Detection Challenge | Natural Language Processing

September 2022 - December 2022

- Achieved f1-score of 0.65 using Logistic Regression with custom class weights even after a restriction on the use of Deep Learning based approach.
- Used customized threshold probability to improve score from 0.63 to 0.65.
- Performed text classification analysis using LIME to draw insights and explain model prediction.

ShareCab | Dart, Flutter, Firebase

February 2022

- Created an Android application using Flutter for carpool facilities from College to Airport.
- Implemented Firebase operations with UI elements, added OTP Email Authentication Support with an attempt to utilise the solution of Interval Matching Problem.
- Awarded 1st prize in Open Innovation Track at ByteSynergy 2022.

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, MySQL, Dart, Kotlin, XML, Bash, mySQL

Libraries and Frameworks: Pandas, Numpy, SciPy, sklearn, Pytorch, Tensorflow, spaCy, Matplotlib, Seaborn, Flutter, React, NextJS, tailwind-css, NodeJS, Express, Firebase, MongoDB, JDBC,

Tools and Miscellaneous: VS Code, Jupyter Notebook, Google Colab, Android Studio, Vim, Unix, Git, GitHub, Figma, Canva, Premier Pro

Honors and Awards

- Dean's Merit Scholarship (2020-2021):** Awarded to top performers in class and was provided a scholarship for the same for 2 years in a row.
- Dean's Merit List (2020-2022):** Awarded to students with 3.6+ CGPA for a year. Awarded 2 years in a row.

Mentorship

Teaching Assistant : Real Analysis

October 2022 - March 2023

- Conducted tutorial sessions on various concepts involving real analysis.

Teaching Assistant: Digital Design

November 2021 - April 2022

- Conducted problem-solving sessions related to concepts in digital design.

Leadership / Extracurricular

TEDxIIITBangalore

May 2021 - January 2023

- Organiser for the "Winds of change" iteration.
- Speaker Curator for the "Unconventionality" iteration.

Google Developer Students Club - IIITB

October 2021 - Present

- Mobile Developer Lead for 2022-2023 iteration.
- Marketing and Outreach lead for 2021-2022 iteration.