

Monirul Haque

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RESEARCH INTERESTS

Natural Language Processing, Computer Vision, Machine Learning, Network Science, Artificial Intelligence.

ACADEMIC QUALIFICATIONS

Master of Science in Computer Science and Engineering
BRAC University, Dhaka, Bangladesh

Spring 2023 – Present

CGPA: 3.83 out of 4.00 (completed 18 credits)

Bachelor of Science in Computer Science and Engineering
BRAC University, Dhaka, Bangladesh

Summer 2018 – Fall 2021

CGPA: 3.81 out of 4.00

PUBLICATIONS

BanglaBait: Semi-Supervised Adversarial Approach for Clickbait Detection on Bangla Clickbait Dataset.

Md. Motahar Mahtab, **Monirul Haque**, Mehedi Hasan, and Farig Sadeque. Proceedings of Recent Advances in Natural Language Processing, pages 748–758, Varna, Bulgaria, September 2023. <https://aclanthology.org/2023.ranlp-1.81/>

RESEARCH PROJECTS

Information Retrieval using Community Detection on Graph Network of Documents

A novel information retrieval technique that leverages community detection on a graph network based on a Topic model created on news documents.

WhisperWave: Synergizing Parameter Efficient Fine-Tuning using LoRA Technique in Transformer Models for Out-Of-Distribution Bangla Automated Speech Recognition (Accepted in IEEE CSDE 2023)
Fine-tuning pre-trained multilingual Whisper LargeV2 with Low-Rank Adaptation Parameter Efficient Fine-Tuning Technique on a low specification computer.

TEACHING EXPERIENCE

Adjunct Lecturer

BRAC University, Dhaka, Bangladesh

May 2022 – Present

Courses: * CSE111: Programming Languages II * CSE331: Automata & Computability
* CSE220: Data Structures * CSE341: Microprocessors
* CSE221: Algorithms

* CSE360: Computer Interfacing
* CSE421: Computer Networks
* CSE422: Artificial Intelligence

Undergraduate Teaching Assistant

BRAC University, Dhaka, Bangladesh

June 2021 – January 2022

Courses: * CSE220: Data Structures * CSE221: Algorithms

CERTIFICATIONS

Neural Networks and Deep Learning

DeepLearning.AI, Coursera, July 2020

Introduction to Applied Machine Learning

Alberta Machine Intelligence Institute, Coursera, July 2020

Machine Learning Specialization

University of Washington, Coursera, June 2020

LANGUAGE PROFICIENCY

IELTS Score: 7.0

October 2023

Speaking: 7.0, Listening: 8.0, Reading: 7.0, Writing: 6.5

ACHIEVEMENTS

- Participant in ICPC Dhaka Regional, 2019
- Stood 21st in LU CSE Carnival Programming Contest, Sylhet, 2019
- Stood 5th in CSE-ian of BD Programming Contest 7, 2019 (Junior Division)
- Appeared in VC's List 4 times and Dean's List 2 times

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, XML, JSON, SQL, MarkDown, L^AT_EX

Frameworks: Tensorflow, Pytorch, CUDA, Git, Spring Boot, Node JS

CO-CURRICULAR ACTIVITIES

- Served as the role of a **Coach** for two teams in ICPC Dhaka Regional 2022
- Conducted a workshop on **Introduction to Competitive Programming** in Fall 22
- Acted as a **Representative of Robotics** activity in RS day (**Residential Semester 49, 2018**)