

Mahmudul Haque

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Work Experience:

Adjunct Lecturer

Department of Computer Science and Engineering
Independent University, Bangladesh

Dhaka, Bangladesh
January 2023-
Present

Research Assistant

Department of Computer Science and Engineering
Independent University, Bangladesh

Dhaka, Bangladesh
December 2022-
Present

Academic Background:

B.Sc. in Electrical, Electronic and Communication Engineering (EECE)

Military Institute of Science and Technology (MIST)
CGPA: 3.47/4.00 (last 60 credits: 3.63/4/00)

Dhaka, Bangladesh
2017-2022

Higher Secondary Certificate (HSC)

Notre Dame College
GPA: 5.00/5.00 (With Board Scholarship)

Dhaka, Bangladesh
2017

List of Publications:

1. Thesis:

- a. **M. Haque** and S. Afsha, “**Detection and Classification of Sensitive Audio-Visual Content for Automated Film Censorship and Rating**”.

2. Journal Papers:

- a. **M. Haque**, H. Nyeem and S. Afsha, “**BrutNet: A Novel Approach for Violence Detection and Classification using DCNN with GRU**”, *Soft Computing*, 2023. (Submitted)

3. Conference Papers:

- a. **M. Haque**, H. Nyeem, T. B. Ovi, A. Nahid, M. S. H. Molla, M. T. M. Tuhin, F. Shahab, A. S. Alam, “**Movie Clip Dataset: A New Dataset for Generalised Real-World Violence Detection**”, 2nd International Conference on Information and Communication Technology for Sustainable Development, 2023. (Submitted)
- b. M. A. Ali, **M. Haque**, S. B. Alam, R. Rahman, M. A. Amin and S. Kobashi, “**Medical Personal Protective Equipment detection using YOLOv7**”, 22nd International Conference on Machine Learning and Cybernetics (ICMLC), 2023. (Accepted)
- c. **M. Haque**, S. Afsha and H. Nyeem, “**Developing BrutNet: A New Deep CNN Model with GRU for Realtime Violence Detection**”, *2022 International Conference on Innovations in Science, Engineering and Technology*, 2022, pp. 390-395, doi: 10.1109/ICISSET54810.2022.9775874.
- d. S. Afsha, **M. Haque** and H. Nyeem, “**Machine Learning Models for Content Classification in Film Censorship and Rating**”, *2022 International Conference on Innovations in Science, Engineering and Technology*, 2022, pp. 396-401, doi: 10.1109/ICISSET54810.2022.9775816.
- e. **M. Haque**, S. Afsha, T. B. Ovi and H. Nyeem, “**Improving Automatic Sign Language Translation with Image Binarisation and Deep Learning**”, *2021 5th International Conference on Electrical Engineering and Information Communication Technology (ICEEICT)*, 2021, pp. 1-5, doi: 10.1109/ICEEICT53905.2021.9667804.
- f. M. S. H. Onim, M. I. Akash, **M. Haque** and R. I. Hafiz, “**Traffic Surveillance using Vehicle License Plate Detection and Recognition in Bangladesh**”, *2020 11th International Conference on Electrical and Computer Engineering (ICECE)*, 2020, pp. 121-124, doi: 10.1109/ICECE51571.2020.9393109.

Scores:

1. **IELTS:** 7.5 (Listening - 8.5, Reading - 7.5, Writing - 7, Speaking - 7)
2. **GRE:** AWA - 4.0, Quantitative - 161, Verbal - 147

Projects:

- Pelvic bone segmentation and fracture detection using radiographic images at IUB in collaboration with the University of Hyogo, Japan. (2022-Present)

- Automatic Sign Language Translation, Violence Detection and Film Censorship and Rating. (2021-Present)
- Remote sensing using IoT for a research group at the University of New Hampshire, New Hampshire, United States. (2022)
- Demonstration of Frequency Handoff and Call Drop for 2G and 3G networks at MIST. (2021)
- Website for the 5th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT) for MIST. (2021)
- A Bulk SMS sending app using Flutter named the Postmaster App. (2020)
- Real-time OCR and Text Detection with TensorFlow, OpenCV and Tesseract. (2020)

Technical Skills:

Programming Languages (Python, C, C++, MATLAB, Dart, JavaScript), **Image Processing** (OpenCV), **Machine Learning** (TensorFlow, Scikit-learn), **Visualisation** (Matplotlib, Seaborn), **App Development** (Flutter), **Web Development** (Django, Flask), **Cloud Services** (AWS), **Hardware** (Arduino), **Design & Simulation** (Simulink, Proteus, AutoCAD, Adobe Illustrator, Adobe Photoshop), **Video Editing** (Adobe Premier Pro, DaVinci Resolve), **Platforms** (Windows, Linux), **Version Control** (Git).

Awards & Achievements:

- Received incentive for **scopus-indexed publication** from R&D Wing, MIST.
- Won the Championship in Bangabandhu Inter-Department Cultural Competition 2021 leading my team.
- Achieved 2nd Runner-up position at Hult Prize 2020 (On-campus round, MIST).
- Became 2nd Runners-up in the Line Following Robot Segment in a national **robotics** competition in 2019.
- Awarded a Government **Board Scholarship** for my undergraduate education in 2017.
- Became 2nd Runners-up in a national **Math Olympiad** in 2016.

Courses and Certificates:

- Course on **Neural Networks and Deep Learning, CNN, and Sequential Models** by *deeplearning.ai* at Coursera.
- Course on **Machine Learning** by *Stanford University* at Coursera.
- Course on **Introduction to AI, Python for Data Science, AI & Development, Data Analysis with Python, and Data Visualisation with Python** by *IBM* at Coursera.
- Course on **Programming for Everybody and Python Data Structures** by *Michigan University* at Coursera

Internships and Training:

Teletalk Bangladesh Ltd
Internship (7 days)

Gulshan, Dhaka,
Bangladesh, 2021

Co-curricular Activities:

Department Representative
Department of EECE, MIST

March 2021-
May 2022

Energypac Electronics Ltd.
Factory
Internship (7 days)

Gazipur,
Bangladesh
2021

General Secretary
IEEE MIST Student Branch

February 2021-
May 2022

Dhaka Electric Supply
Company Limited (DESCO)
Internship (7 days)

Mirpur, Dhaka,
Bangladesh
2021

Vice President
MIST Innovation Club

February 2021-
May 2022

Vice President
MIST Literature and Cultural Club

February 2021-
June 2022

Volunteer Activities:

- Volunteered as a session host at the International Conference on 4th Industrial Revolution and Beyond (IC4IR), 2021.
- Volunteered as a session host at the 5th International Conference on Electrical Engineering and Information Communication Technology (ICEEICT), 2021.
- Conducted a week-long workshop on Python at MIST Innovation Club.

References:

Available on request.