

Eftekhar Hossain

ASSISTANT PROFESSOR,

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING



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Research Interest

Natural Language Processing, Computer Vision, and Deep Learning.

Employment

- 2022 – **Asst. Professor**, Department of Electronics and Telecommunication Engineering (ETE), Chittagong University of Engineering and Technology (CUET), Bangladesh.
- 2019 – 2022 **Lecturer**, Department of Electronics and Telecommunication Engineering (ETE), Chittagong University of Engineering and Technology (CUET), Bangladesh.
- 2018 – 2019 **Lecturer**, Department of Electrical & Electronic Engineering, Premier University, Bangladesh.

Education

- 2014 – 2018 **B.Sc. in Electronics and Telecommunication Engineering**
Chittagong University of Engineering and Technology, Bangladesh.
CGPA: 3.88/4.0, **Merit Position:** 1st
- 2021 – 2023 **MSc. in Electronics and Telecommunication Engineering**
Chittagong University of Engineering and Technology, Bangladesh.
CGPA: 4.0/4.0
Thesis: Investigating Multimodal Features to Identify Multilingual Offense from Social Media Memes

Research Publications

- 1 **Eftekhar Hossain**, Omar Sharif and Mohammed Moshikul Hoque. "MUTE: A Multimodal Dataset for Detecting Hateful Memes". *AACL-SRW*. 2022.
- 2 **Eftekhar Hossain**, Omar Sharif, Mohammed Moshikul Hoque. "MemoSen: A Multimodal Dataset for Sentiment Analysis of Memes". *Language Resources and Evaluation Conference (LREC)*. 2022.
- 3 **Eftekhar Hossain**, Mohammed Moshikul Hoque, Enamul Hoque and Md. Saiful Islam. "A Deep Attentive Multimodal Learning Approach for Disaster Identification from Social Media Posts". *IEEE Access (Q1, IF-3.367)*. 2022.
- 4 Omar Sharif, **Eftekhar Hossain**, Mohammed Moshikul Hoque. "M-BAD: A Multilabel Dataset for Detecting Aggressive Texts and Their Targets". *CONSTRAINT Workshop (ACL)*. 2022.
- 5 **Eftekhar Hossain**, Omar Sharif, Mohammed Moshikul Hoque. "Identification of Multilingual Offense and Troll from Social Media Memes using Weighted Ensemble of Multimodal Features". *Journal of King Saud University-Computer and Information Sciences*. **ELSEVIER (Q1, IF-13.473)**, 2022.
- 6 **Eftekhar Hossain**, Omar Sharif and Mohammed Moshikul Hoque. "Investigating Visual and Textual Features to Identify Trolls from Multimodal Social Media Memes". *Shared Task Description Paper in Workshop on Speech and Language Technologies for Dravidian Languages (EACL)*. 2021.

- 7 **Eftekhar Hossain**, Omar Sharif, Mohammed Moshikul Hoque. "Multilingual Code-Mixed Hope Speech Detection using Cross-lingual Representation Learner". *Shared Task Description Paper in Workshop On Language Technology For Equality, Diversity, Inclusion (EACL)*. 2021.
- 8 Omar Sharif, **Eftekhar Hossain** and Mohammed Moshikul Hoque. "Offensive Language Detection from Multilingual Code-Mixed Text using Transformers". *Shared Task Description Paper in Workshop on Speech and Language Technologies for Dravidian Languages (EACL)*. 2021.
- 9 Omar Sharif, **Eftekhar Hossain**, Mohammed Moshikul Hoque. "Combating Hostility: Covid-19 Fake News and Hostile Post Detection in Social Media". *Shared Task Description Paper in CONSTRAINT Workshop (AAAI)*. 2021.
- 10 Omar Sharif, **Eftekhar Hossain** and Mohammed Moshikul Hoque. "TechTexC: Classification of Technical Texts using Convolution and Bidirectional Long Short Term Memory Network". *Proceedings of 17th International Conference on Natural Language Processing (ICON, ACL)*. 2021.
- 11 **Eftekhar Hossain**, Omar Sharif, Mohammed Moshikul Hoque. "SentiLSTM: A Deep Learning Approach for Sentiment Analysis of Restaurant Reviews". *Proceedings of 20th International Conference on Hybrid Intelligent Systems (HIS , Springer)*. 2020.
- 12 **Eftekhar Hossain**, Omar Sharif and Mohammed Moshikul Hoque. "Sentiment Polarity Detection on Bengali Book Reviews Using Multinomial Naive Bayes". *Proceedings of 5th International Conference on Advanced Computing and Intelligent Engineering (ICACIE, Springer)*. 2020.
- 13 Omar Sharif, Mohammed Moshikul Hoque, **Eftekhar Hossain**. "Sentiment Analysis of Bengali Texts on Online Restaurant Reviews Using Multinomial Naive Bayes". *Proceedings of International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT, IEEE)*. 2019.

To get full list of publications visit my [Google Scholar](#)

Technical Skills

Languages	Python, C, Matlab, C++
Machine Learning	Scikit-Learn, Tensorflow, Keras, PyTorch
Data Science	Pandas, Seaborn, Numpy, Beautiful Soup
Web Development	Flask, Bootstrap, PHP, MySQL.
Electronics	Proteus, Micro-controller, Mikro C, PicKit.
IDE & Tools	Jupyter, Spyder, L ^A T _E X, Hugo.

Undergraduate Projects

Final Year Thesis	Approached a System that Can Detect Cancer From Bone MR Images Using Neural Network and Neuro Fuzzy Classifier. Skills Used: MATLAB, Image Processing, Machine Learning.
Web Dev Project	Developed An Online Based Semester Registration System Skills Used: HTML, CSS, SQL, PHP, Xampp
Electronics Project	Designed a Heart Beat Rate Monitoring System Skills Used: Proteus, MikroC, PicKit

Misc

Awards and Achievements

- 2021 **Winner**, Hope speech detection shared task, EACL-2021.
 2nd Runner-up, Multimodal troll meme detection and offensive language classification shared task, EACL-2021
- 2016 **Merit Award**, Obtained Highest CGPA in an Academic Year, CUET.
- 2017 **1st Prize**, Project Show competition, CUET
 Best Web Development Project Award, CUET.

Certification

- June-2020 **Natural Language Processing Nanodegree**, *Udacity*.
- April-2020 **IBM AI Engineering Professional Certificate**, *Coursera*.
- March-2020 **TensorFlow: Data and Deployment Specialization**, *Coursera*.
- Oct-2019 **DeepLearning.AI TensorFlow Developer Specialization**, *Coursera*.
- Sep-2019 **Deep Learning Specialization**, *Coursera*.

Teaching

- 2022 Introduction to C Programming Lab (CSE 182)
 Object Oriented Programming (CSE 284)
- 2021 Neural and Fuzzy Systmes (ETE 455)
 Multimedia Communication (ETE 407)
- 2020 Data Structure and Algorithms (CSE 281)
 Information Theory and Coding (ETE 311)
 Antenna and Wave Propagation (ETE 317).
- 2019 Signal and System (EEE 201)
 Electrical Circuits-I (EEE 101).
- 2018 Cellular Mobile Communication (EEE 435).

Invited Training

- June-2022 **AI and Machine Learning with Python**, *CUET IT Bussiness Incubator*.
- Oct-2022 **Machine Learning with Python**, *CUET IT Bussiness Incubator*.

Test Scores

- GRE **Overall**-306 (Q-163, V-143)
- IELTS **Overall**-6.5 (L-7, R-7.5, W-6, S-6)