

# Eftekhar Hossain

LECTURER,

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING



eftekhar.github.io



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## Research Interest

Natural Language Processing, Deep Learning, and Data Science.

## Employment

- 2019 – . . . . **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:** 1<sup>st</sup>

## Research Publications

- 1 **Eftekhar Hossain**, Omar Sharif, Mohammed Moshikul Hoque. “MemoSen: A Multimodal Dataset for Sentiment Analysis of Memes”. *Language Resources and Evaluation Conference (LREC)*. 2022.
- 2 **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.
- 3 Omar Sharif, **Eftekhar Hossain**, Mohammed Moshikul Hoque. “M-BAD: A Multilabel Dataset for Detecting Aggressive Texts and Their Targets”. *CONSTRAINT Workshop (ACL)*. 2022.
- 4 Eftekhar Hossain, Omar Sharif, Mohammed Moshikul Hoque. “Identification of Multilingual Offense and Troll from Social Media Memes using Weighted Ensemble of Multimodal Features”. *Submitted to Journal of King Saud University-Computer and Information Sciences*. **ELSEVIER (Q1, IF-13.473)**, 2022.
- 5 **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.
- 6 **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.
- 7 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.
- 8 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.

- 9 Omar Sharif, **Eftekhair 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.
- 10 **Eftekhair 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.
- 11 **Eftekhair 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.
- 12 Omar Sharif, Mohammed Moshikul Hoque, **Eftekhair 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.
- 13 **Eftekhair Hossain**, Md. Farhad Hossain, Mohammad Anisur Rahaman. "A color and texture based approach for the detection and classification of plant leaf disease using KNN classifier". *Proceedings of International Conference on Electrical, Computer and Communication Engineering (ECCE, IEEE)*. 2019.
- 14 **Eftekhair Hossain**, and Mohammad Anisur Rahaman. "Bone Cancer Detection & Classification Using Fuzzy Clustering & Neuro Fuzzy Classifier". *Proceedings of 4th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT, IEEE)*. 2018.

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 <sup>A</sup> T <sub>E</sub> 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. <b>Skills Used:</b> MATLAB, Image Processing, Machine Learning.
Web Dev Project	Developed An Online Based Semester Registration System <b>Skills Used:</b> HTML, CSS, SQL, PHP, Xampp
Electronics Project	Designed a Heart Beat Rate Monitoring System <b>Skills Used:</b> Proteus, MikroC, PicKit

## Misc

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### 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 **1<sup>st</sup> 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).