

## Mohammad Marufur Rahman

BSc in Computer Science  
Department of Computer Science and Engineering  
Khulna University of Engineering and Technology,  
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### Research Interests

Machine Learning, Deep Learning, Computer Vision, AI in Healthcare, Embedded Systems, IoT

### Education

Academic Qualifications	University / Institution & Country	Group / Subject	GPA	Year
M.Sc.	BRAC University, Bangladesh	Computer Science and Engineering	--	Ongoing
B.Sc.	Khulna University of Engineering & Technology, Bangladesh	Computer Science and Engineering	3.89/4.00	2020

### Publications

- **Mohammad Marufur Rahman**, Sheikh Nooruddin K. M. Azharul Hasan, Nahin Kumar Dey “**HOG + CNN Net: Diagnosing COVID-19 and Pneumonia by Deep Neural Network from Chest X-Ray Images**”, SN Computer Science, Springer, DOI: <https://doi.org/10.1007/s42979-021-00762-x>.
- **Mohammad Marufur Rahman**, Md. Milon Islam, Md. Motaleb Hossen Manik, Md. Rabiul Islam, “**Machine Learning Approaches for Tackling Novel Coronavirus (COVID-19) Pandemic**”, SN Computer Science, Springer, DOI: <https://doi.org/10.1007/s42979-021-00774-7>
- **Mohammad Marufur Rahman**, Md. Milon Islam, Shishir Ahmmed, Saeed Anwar Khan, “**Obstacle and Fall Detection to Guide the Visually Impaired People with Real Time Monitoring**”, SN Computer Science, Springer. DOI:10.1007/s42979-020-00231-x
- **Mohammad Marufur Rahman**, Md. Milon Islam and Shishir Ahmmed, " **“BlindShoe”: An Electronic Guidance System for the Visually Impaired People**", Journal of Telecommunication, Electronic and Computer Engineering (JTEC), Universiti Teknikal Malaysia Melaka, vol. 11, no. 2, pp. 49-44, Apr. 2019. [SJR 0.15]
- **Mohammad Marufur Rahman**, Md. Motaleb Hossen Manik, Md. Milon Islam, Saifuddin Mahmud, Jong-Hoon Kim “**An Automated System to Limit COVID-19 Using Facial Mask Detection in Smart City Network**”, International IOT, Electronics and Mechatronics Conference, IEMTRONICS 2020 sponsored by IEEE Vancouver, Canada. 9-12 Sep. 2020. DOI: 10.1109/IEMTRONICS51293.2020.9216386
- **Mohammad Marufur Rahman**, Saeed Anwar Khan, K. M. Azharul Hasan “**Word Sense Disambiguation by Context Detection**,” 4th International Conference on Electrical Information and Communication Technology (EICT), IEEE, Khulna, Bangladesh, 20-22 Dec. 2019. DOI:10.1109/EICT48899.2019.9068810

## Current Research and Project

- Working in a team of researchers from multiple disciplines under the supervision of Dr. Mahbubunnabi Tamal to provide a Mobile application based AI powered telemedicine platform
- “Prediction of mortality, ICU admission and ventilation support for COVID-19 patient using clinical parameters”  
**Paper under preparation.**  
Authors: Mohammad Marufur Rahman, Mahbubunnabi Tamal
- Developing a Mobile Health application with my students that will take facial image and use deep learning techniques to predict Anemia.

## Journal Reviewer

- ❖ Informatics in Medicine Unlocked
- ❖ Indonesian Journal of Electrical Engineering and Computer Science

## Professional Experience

### Lecturer

Computer Science and Engineering  
Ahsanullah University of Science and Technology  
From (13-Dec-2020) To Present

## Other Experience

### Research Assistant

Dr. Mahbubunnabi Tamal  
Associate professor  
Department of Biomedical Engineering  
Imam Abdulrahman Bin Faisal University, Saudi Arabia.  
From (October 2021) to Present

## Awards & Scholarships

- University Faculty Dean’s Award in the Session 2016-17, 2017-18, and 2018-19
- Talent pool Scholarship in SSC from Dhaka board (12th position among thousands of students)

## Technical Skills and Competencies

Programming Languages

Python, C, C++, JAVA

Frameworks and Tools

TensorFlow, Keras, PyTorch

## English Proficiency Test (IELTS)

Overall Score: 7.0

➤ Listening: 7.5, Reading: 8.0, Writing: 6.0, Speaking: 6.0

## Online Certificates

Course Name	University/Institution	Year
Machine Learning	Stanford University	2019
Mathematics for Machine Learning Specialization	Imperial College London	2020
TensorFlow in Practice Specialization	DeepLearning.AI	2020
Machine Learning: Algorithms in the Real World Specialization	Alberta Machine Intelligence Institute	2020
Natural Language Processing with Classification and Vector Spaces	DeepLearning.AI	2020
AI For Everyone	DeepLearning.AI	2020
Academic Literacy	Moscow Institute of Physics and Technology	2020
Introduction to the Internet of Things and Embedded Systems	University of California, Irvine	2020
The Arduino Platform and C Programming	University of California, Irvine	2020
Interfacing with the Arduino	University of California, Irvine	2020
Deep Learning Specialization	DeepLearning.AI	2021
AI for Medical Diagnosis	DeepLearning.AI	2021

**Certificates Link:** <https://github.com/nayem-cse/Coursera-Certificates>

## Links

Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=wN0nqFwAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=wN0nqFwAAAAJ</a>
ResearchGate	<a href="https://www.researchgate.net/profile/Mohammad-Rahman-147">https://www.researchgate.net/profile/Mohammad-Rahman-147</a>

## References

### Dr. K. M. Azharul Hasan

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### Dr. Mahbubunnabi Tamal

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### Dr. Mohammad Shafiul Alam

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