





Md. Sakib Bin Alam

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Research Interests

I have a broader interest in artificial intelligence. My current research focuses on machine learning, data science, human computer interaction and healthcare informatics.

Education

M.S. in Data Science and AI Asian Institute of Technology GPA: 3.83/4.0 (86-95% marks)	Thailand Jan 2022 - Dec 2023
B.Sc. in Computer Science and Engineering International Islamic University Chittagong GPA: 3.953/4.0	Bangladesh July 2017

Work Experience

Research Assistant AIT Brain Lab, Thailand ◦ Domain: Working on the project 'Research Writing Assistant'. I am looking for some novel optimal summarization technique.	Jan 2023 - present
Student Assistant Asian Institute of Technology ◦ Worked as a facilitator in a training program for a group of engineers of 'Local Government Engineering Department, Bangladesh'. The program was organized by the Government of Bangladesh and AIT. Responsibilities: facilitating the class, evaluating students' progress.	July 2022 – Jan 2023
Lecturer Asian University for Women (AUW), Bangladesh ◦ Prepared and delivered lectures, and conducted lab classes. Prepared quizzes, problem sets, question papers, and graded answer scripts.	Sep 2018 - Dec 2021
Adjunct Lecturer International Islamic University Chittagong, Bangladesh ◦ I conducted five courses where in two courses I had to deliver the lecture in theory classes and in other three courses I was responsible for the lab classes.	Oct 2017 - Mar 2018

Publications

Peer-reviewed Journal Articles and Conference Proceedings

- Shams F. Ahmed, **Md. Sakib Bin Alam**, et.al. "Deep learning modelling techniques: Current progress, applications, advantages, and challenges". Artificial Intelligence Review. (IF: 9.588)
- Muhammed J.A. Patwary, Subrina Akter, **Md. Sakib Bin Alam**, A.N.M. Rezaul Karim. "Bank Deposit Prediction Using Ensemble Learning". Artificial Intelligence Evolution. 2021. DOI: <https://doi.org/10.37256/aie.222021880>
- Md. Sakib Bin Alam**, Muhammed J.A. Patwary, Maruf Hassan. "Birth Mode Prediction Using Bagging Ensemble Classifier: A Case Study of Bangladesh". International Conference on Information and Communication Technology for Sustainable Development (ICICT4SD). IEEE. 2021. DOI: 10.1109/ICICT4SD50815.2021.9396909

4. Maruf Hassan, **Md. Sakib Bin Alam**, Tanveer Ahsan. "Emotion Detection from Text Using Skip-thought Vectors". 2nd International Conference on Innovations in Science, Engineering and Technology (ICISSET). DOI: 10.1109/ICISSET.2018.8745615. IEEE. 2018 [**Best Paper Award**]

Manuscripts under review & in progress

1. Md. Sakib Bin Alam, et.al. "Applications of deep learning, their challenges, benefits, and future perspectives". Journal of Healthcare Engineering. [**In preparation**]
2. Md. Sakib Bin Alam, et.al. "Carry-over effects in interaction fidelity: Impact of High-to-low vs low-to-high usage". [**In preparation**]
3. "5G enabled Internet of things: Technology drivers, requirements, challenges, prospects and opportunities". [**In preparation**]

Honors and Awards

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| o Prestigious Royal Thai Govt. Scholarship for my Master's degree at AIT | 2022-2023 |
| o Awarded 100% tuition fee scholarship in the Master's in Data Science program, Tampere University, Finland (I declined) | 2021 |
| o University Merit Scholarship for Excellent Academic Performance.
International Islamic University Chittagong (IIUC) | 2013 – 2016 |
| o Best Paper Award. 2nd IEEE ICISSET
Won the best paper award on Data Science track | 2018 |

Technical Skills

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- o **Languages:** Python, MATLAB, Java, C/C++, SQL, HTML, CSS
 - o **ML Tools:** pandas, numpy, matplotlib, sklearn, PyTorch
 - o **Other Tools:** Git, Github, Jupyter Notebook, Mendeley

Relevant Projects

Land Use Classification using Satellite Image Dataset

- o Applying custom-built CNNs for land use classification.
- o Applying transfer learning to fine-tune pre-trained networks such as AlexNet and ResNet.

Carry-over effects in interaction fidelity: Impact of High-to-low vs low-to-high usage

- o In this study, the influence of a high fidelity virtual reality (VR) interaction over a subsequent low fidelity virtual reality interaction and vice versa were evaluated.

Course Instructed (undergraduate level)

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| o Computer Programming Languages | o Computer Algorithms |
| o Computer Architecture | o CS50 (online course) |

Leadership Experience

Student Advisor

Aug 2019 – Dec 2021

Asian University for Women.

- o Besides teaching at AUW, I worked as a Student Advisor. As an advisor, I regularly monitored students' performance and helped them to develop individual study plans.

References

Available upon request.