

Md. Sakib Bin Alam

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Research Interests

Deep Learning, NLP, Data Science, Healthcare

Education

M.S. in Data Science and AI, Asian Institute of Technology, Thailand
GPA: **3.80/4.0** (86-95% marks)
Thesis (ongoing): *Summarization using question answering*
Jan 2022 - Dec 2023

B.Sc. in Computer Science and Engineering, International Islamic University Chittagong, Bangladesh
GPA: **3.953/4.0**
July 2017

Work Experience

Teaching Assistant April 2023 – July 2023
Working as a Teaching Assistant at AIT (Vietnam campus) for the '*Data Analytics for Business Intelligence*' course under the supervision of Dr. Vatcharaporn Esichaikul. Responsibilities: conducting lab classes, creating and grading assignments, evaluating students' progress.

Worked as a Teaching Assistant for the '*Business Intelligence and Analytics* course' under the supervision of Dr. Vatcharaporn Esichaikul. Jan 2023 – April 2023

Research Assistant Jan 2023 - present
AIT Brain Lab, Thailand
Working in the NLP domain. My topic is '*Summarization using question answering*'. Supervisor: Dr. Chaklam Silpasuwanchai.

Lecturer Sep 2018 - Dec 2021
Asian University for Women (AUW), Bangladesh
Prepared and delivered lectures and conducted lab classes. Prepared quizzes, problem sets, question papers, and graded answer scripts.

Adjunct Lecturer Oct 2017 - Mar 2018
International Islamic University Chittagong, Bangladesh
Prepared and delivered lectures and conducted lab classes. Prepared quizzes, problem sets, question papers, and graded answer scripts.

Publications

Peer-reviewed Journal Articles and Conference Proceedings

Total citations ≥ 34 , according to Google Scholar [May 2023]

- Shams F. Ahmed*, **Md. Sakib Bin Alam***, et.al. "*Deep learning modelling techniques: Current progress, applications, advantages, and challenges*". Artificial Intelligence Review. 2023. (**Q1, IF: 9.588**). (* = equal contribution) DOI: <https://doi.org/10.1007/s10462-023-10466-8>
- 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](https://doi.org/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. Shams F. Ahmed*, **Md. Sakib Bin Alam***, et.al. “*Wide-Ranging Applications of Deep Learning: A Survey*”. IEEE Access. (**Q1, IF: 3.476**) [**Submitted**]. (* = equal contribution)

2. Shams F. Ahmed, **Md. Sakib Bin Alam**, et.al. “5G-enabled Internet of Things: Technology drivers, requirements, challenges, and opportunities”. IEEE Access. (**Q1, IF: 3.476**) [**Submitted**].

Honors and Awards

- 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. 2013 – 2016
- o **Best Paper Award**. 2nd IEEE ICISSET. (Data Science track). 2018

Technical Skills

- o **Languages:** Python, MATLAB, Java, C/C++, SQL, HTML, CSS
- o **Libraries/APIs:** pandas, numpy, matplotlib, sklearn, PyTorch, HuggingFace, Transformers

Relevant Projects

Summarization using question answering

- o This is an initial study of my thesis. Here I proposed a framework to generate summarization by using question answering method.

Land Use Classification using Satellite Image Dataset

- o Applied custom-built CNNs for land use classification.
- o Applied 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.

Leadership Experience

- o **Student Advisor**, Asian University for Women. Aug 2019 – Dec 2021
- 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.