Md. Sakib Bin Alam

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Research Interests

Deep Learning, NLP, Data Science, Healthcare, Information System

Education

M.S. in Data Science and AI, Asian Institute of Technology (AIT) — Thailand
GPA: **3.78**/4.0 (86-95% marks) — Jan 2022 - Dec 2023
Thesis (ongoing): *Summarization using question answering*

B.Sc. in Computer Science and Engineering, International Islamic University Chittagong — Bangladesh
GPA: **3.95**/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]

1. 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

2. 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

3. **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)**. 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 **(ICISET)**. DOI: 10.1109/ICISET.2018.8745615. 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. 2023. **(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. 2023. **(Q1, IF: 3.476) [Submitted]**.

Honors and Awards

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

Technical Skills

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

Relevant Projects

Summarization using question answering

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

Land Use Classification using Satellite Image Dataset

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

- 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

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

- 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.