

Md. Sakib Bin Alam

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Research Interests

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

Education

M.S. in Data Science and AI , Asian Institute of Technology (AIT) GPA: 3.78/4.0 (86-95% marks) Thesis (ongoing): <i>Summarization using question answering</i>	Thailand Jan 2022 - Dec 2023
B.Sc. in Computer Science and Engineering , International Islamic University Chittagong GPA: 3.95/4.0	Bangladesh July 2017

Work Experience

Teaching Assistant Working as a Teaching Assistant at AIT (Vietnam campus) for the ' <i>Data Analytics for Business Intelligence</i> ' 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.	April 2023 – July 2023 Jan 2023 – April 2023
Research Assistant AIT Brain Lab, Thailand Working in the NLP domain. My topic is ' <i>Summarization using question answering</i> '. Supervisor: Dr. Chaklam Silpasuwanchai.	Jan 2023 - present
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 Prepared and delivered lectures and conducted lab classes. Prepared quizzes, problem sets, question papers, and graded answer scripts.	Oct 2017 - Mar 2018

Publications

Peer-reviewed Journal Articles and Conference Proceedings

Total citations >= **35**, h-index: **3**, i-10 index: **2** according to Google Scholar [June 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>
- Shams F. Ahmed, **Md. Sakib Bin Alam**, et.al. "*Industrial internet of things (IIoT)-enabled technologies: Applications, challenges and future directions*". Computers and Electrical Engineering. 2023. (**Q1, IF: 4.152**) [Accepted]
- 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>

4. **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

5. 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. 2018. **[Best Paper Award]**

Manuscripts under review & in progress

1. Shams F. Ahmed, **Md. Sakib Bin Alam**, et.al. “*Insights into Internet of Medical Things (IoMT): Data fusion, security issues and potential solutions*”. Information Fusion. (**Q1, IF: 17.56**) **[Submitted]**.

2. 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)

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

Technical Skills

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- 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 for text 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

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| 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. | |