

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: 3.80/4.0 (86-95% marks) Thesis (ongoing): <i>Question Answer Driven Summarization</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. Responsibilities: conducting lab classes, creating, and grading assignments, evaluating students' progress. Worked as a Teaching Assistant for the ' <i>Business Intelligence and Analytics</i> course'.	April 2023 – July 2023 Jan 2023 – April 2023
Research Assistant AIT Brain Lab, Thailand Working in the NLP domain. My topic is ' <i>Question Answer Driven Summarization</i> '.	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 >= **38**, 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>
- 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](https://doi.org/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**]. (* = equal contribution)
2. Shams F. Ahmed, **Md. Sakib Bin Alam**, et.al. “*Deep learning: Pioneering solutions across diverse fields*”. CAAI Transactions on Intelligence Technology. 2023. (**Q1, IF: 7.985**) [**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 ICISSET. (Data Science track). 2018

Technical Skills

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

Relevant Projects

Question Answer Driven Summarization

- 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.