

# Md. Sakib Bin Alam

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## Research Interests

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

## Education

|   |                                 |
|---|---------------------------------|
| <b>M.S. in Data Science and AI</b> , Asian Institute of Technology (AIT)<br>GPA: <b>3.80</b> /4.0 (86-95% marks)<br>Thesis (ongoing): <i>Question Answer Driven Summarization</i> | Thailand<br>Jan 2022 - Dec 2023 |
| <b>B.Sc. in Computer Science and Engineering</b> , International Islamic University Chittagong<br>GPA: <b>3.95</b> /4.0   | Bangladesh<br>July 2017         |

## Work Experience

|  |   |
|--|---|
| <b>Teaching Assistant</b><br>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.<br>Worked as a Teaching Assistant for the ' <i>Business Intelligence and Analytics</i> course'. | April 2023 – July 2023<br>Jan 2023 – April 2023 |
| <b>Research Assistant</b><br>AIT Brain Lab, Thailand<br>Working in the NLP domain. My topic is ' <i>Question Answer Driven Summarization</i> '.  | Jan 2023 - present                              |
| <b>Lecturer</b><br>Asian University for Women (AUW), Bangladesh<br>Prepared and delivered lectures and conducted lab classes. Prepared quizzes, problem sets, question papers, and graded answer scripts.  | Sep 2018 - Dec 2021                             |
| <b>Adjunct Lecturer</b><br>International Islamic University Chittagong, Bangladesh<br>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: 12.0**). 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: 4.3**). DOI: <https://doi.org/10.1016/j.compeleceng.2023.108847>
- 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: 18.6**) **[Submitted]**

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: 5.1**) **[Submitted]**

#### Honors and Awards

|   |             |
|---|-------------|
| o <b>Runner-up</b> in the Hackathon 'Develop innovative solution for Digital TB management' (Thailand section) organized by AIT and University of Geneva. Acquired 10,000 baht grant. | Aug 2023    |
| o Prestigious <b>Royal Thai Govt. Scholarship</b> for my Master's degree at AIT.  | 2022-2023   |
| o Awarded <b>100% tuition fee scholarship</b> in the Master's in Data Science program, Tampere University, Finland (I declined).  | 2021        |
| o <b>University Merit Scholarship for Excellent Academic Performance</b> . International Islamic University Chittagong.   | 2013 – 2016 |

#### Technical Skills

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

#### Relevant Projects

##### Fresh From Farm

- o Created a database management system to store information about farmers, their products (crops), and customers. Through this system farmers can sell their crops to the customers. The project is done by implementing Relational Database (SQL), NoSQL (MongoDB) and Graph Model (Neo4j).

##### 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

**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.