# Md. Sakib Bin Alam

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## Research Interests

I have a broader interest in artificial intelligence. My current research focuses on Machine Learning, Data Science, NLP, and Healthcare Informatics.

## Education

**M.S. in Data Science and AI** — Thailand
Asian Institute of Technology — Jan 2022 - Dec 2023
GPA: 3.83/4.0 (86-95% marks)

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

## Work Experience

**Teaching Assistant** — Jan 2023 – April 2023
- I am working as a Teaching Assistant for the 'Business Intelligence and Analytics course' (Spring 2023) under the supervision of Professor Vatcharaporn Esichaikul.

**Research Assistant** — Jan 2023 - present
AIT Brain Lab, Thailand
- Domain: Working on the project 'Research Writing Assistant'. I am looking for some novel optimal summarization technique.

**Student Assistant** — July 2022 – Jan 2023
Asian Institute of Technology
- Worked as a facilitator in a training program for a group of engineers of 'Local Government Engineering Department, Bangladesh'. The program was organized by the Government of Bangladesh and AIT. Responsibilities: facilitating the class, evaluating students' progress.

**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
- I conducted five courses where in two courses I had to deliver the lecture in theory classes and in other three courses I was responsible for the lab classes.

## Publications

**Peer-reviewed Journal Articles and Conference Proceedings**

1. Shams F. Ahmed, **Md. Sakib Bin Alam,** et.al. *"Deep learning modelling techniques: Current progress, applications, advantages, and challenges*". Artificial Intelligence Review. (**IF: 9.588)**

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). IEEE. 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. IEEE. 2018 **[Best Paper Award]**

**Manuscripts under review & in progress**

1. Md. Sakib Bin Alam, et.al. *"Applications of deep learning, their challenges, benefits, and future perspectives"*. Journal of Healthcare Engineering. **[In preparation]**
2. Md. Sakib Bin Alam, et.al. "Carry-over effects in interaction fidelity: Impact of High-to-low vs low-to-high usage". **[In preparation]**
3. "5G enabled Internet of things: Technology drivers, requirements, challenges, prospects and opportunities". **[In preparation]**

## 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 (IIUC) — 2013 – 2016
- **Best Paper Award**. 2nd IEEE ICISET — 2018
  Won the best paper award on Data Science track

## Technical Skills

- **Languages**: Python, MATLAB, Java, C/C++, SQL, HTML, CSS
- **ML Tools**: pandas, numpy, matplotlib, sklearn, PyTorch
- **Other Tools**: Git, Github, Jupyter Notebook, Mendeley

## Relevant Projects

**Land Use Classification using Satellite Image Dataset**

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

## Course Instructed (undergraduate level)

- Computer Programming Languages
- Computer Architecture
- Computer Algorithms
- CS50 (online course)

## Leadership Experience

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

- 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.

# References

Available upon request.