

# Md. Sakib Bin Alam

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## Research Interests

### Deep Learning, NLP, Data Science, Healthcare

**Summary:** I aim to contribute to cutting-edge research using advanced machine learning and data analytics, collaborating with interdisciplinary teams to solve complex real-world problems. I aspire to create data science applications that enhance quality of life by integrating AI in health informatics and environmental contexts.

## Education

### M.Sc. in Data Science and AI, Asian Institute of Technology (AIT)

Thailand

GPA: **3.80/4.0** (86-95% marks)

Jan 2022 - Dec 2023

Thesis (ongoing): *Unsupervised abstractive summarization using question-answer signal*

### B.Sc. in Computer Science and Engineering, International Islamic University Chittagong

Bangladesh

GPA: **3.95/4.0**

July 2017

## Work Experience

### Teaching Assistant

Jan 2023 – July 2023

Asian Institute of Technology (AIT)

- 'Data Analytics for Business Intelligence' course (Vietnam Campus).

- 'Business Intelligence and Analytics' course (Thailand Campus).

- Responsibilities: Conducted lab classes, created and graded assignments, evaluated students' progress.

### Research Assistant

Jan 2023 - present

AIT Brain Lab

- Working on text summarization.

- I am also working on a project 'Research Writing Assistant' that contains features such as smart compose, paraphrasing, citation recommendation and more.

### 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

## Skills

- **Languages:** Python, Java, C/C++, SQL, HTML, CSS

- **Libraries/APIs/Tools:** pandas, numpy, matplotlib, sklearn, PyTorch, Transformers, Tableau

## Selected Publications

### Peer-reviewed Journal Articles and Conference Proceedings

Total citations  $\geq$  49, h-index: 4, i-10 index: 2 according to [Google Scholar](#) [Oct 2023]

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. 2023. (**Q1, IF: 18.6**). DOI: <https://doi.org/10.1016/j.inffus.2023.102060>

2. 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>

3. 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**). IEEE. 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**). IEEE. 2018. DOI: 10.1109/ICISSET.2018.8745615

## Selected Projects

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### Research Writing Assistant

- Writing paper in user defined style (ACL/IEEE etc.)
- Smart compose, paraphrasing, citation recommendations based on input text.
- Generate abstract based on the written paper.

### Analysis of customer data at Sprocket Central Pty Ltd. for future business recommendation

(This project was a part of virtual internship arranged by KPMG and Forage (Australia))

- Data Quality Assessment (check missing/duplicate/incorrect values and clean/complete them for analysis)
- Data Insights (Targeting high value customers based on customer demographics and other attributes)
- Dashboard creation to present insights.

### Fresh From Farm

- 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 in three different aspects: Relational Database (SQL), NoSQL (MongoDB) and Graph Model (Neo4j).
- Performed data analysis to find significant insights and trends.

### Land Use Classification using Satellite Image Dataset (group project)

- Applied custom-built CNNs for land use classification.
- Applied transfer learning to fine-tune pre-trained networks such as AlexNet and ResNet.
- Performed extensive analysis for misclassified images per label, prediction accuracy per label etc.

## (Research) Community Services

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### Reviewer

- Journal
  - Future Generation Computer Systems (**IF: 7.5**)
  - Digital Communications and Networks (**IF: 7.9**)
  - IEEE Access (**IF: 3.9**)

### Honors and Awards

- **Runner-up** 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
- 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