

# Md. Sakib Bin Alam

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## Research Interests

Machine Learning, Deep Learning, Natural Language Processing, Health Informatics, Social Media Analysis.

## Education

**International Islamic University Chittagong**

B.Sc, Computer Science and Engineering

GPA: 3.953/4.0

Bangladesh

July 2017

## Work Experience

**Instructor**

August 2021 - Present

Asian University for Women (AUW), Bangladesh

- Prepare and deliver lectures, and conduct lab classes. Prepare quizzes, problem sets, question papers, and grade answer scripts.

- A large number of students at AUW are from underserved communities across the Asia. AUW aims to provide free and world-class education to them.

I'm honored to be a part of this visionary Institution.

**Junior Instructor**

September 2018 - July 2021

Asian University for Women

- Prepare and deliver lectures, and conduct lab classes. Prepare quizzes, problem sets, question papers, and grade answer scripts.

**Adjunct Lecturer**

October 2017 - March 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

### Conference Proceedings

1. **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

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

### Poster Presentation

1. **Md. Sakib Bin Alam**, Muhammed J.A. Patwary. "Prediction of Childbirth Mode with Suitable Features: A Case Study of Bangladesh". 2nd International Conference on Sustainable Technologies for Industry 4.0 (STI). IEEE. 2020.

- Deep learning models: applications, advances and challenges [**In process**]

## On-going Research Projects

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### **Applications, advances, and challenges of Deep Learning models in Health Informatics** (April 2021 - Present)

Supervisor: Shams Forruque Ahmed, Ph.D. Associate Professor, Asian University for Women

- A review paper on deep learning models, their applications, and limitations has been written using 100 plus research papers.
- Working to develop a novel approach for birth mode (cesarean/normal) prediction using deep learning techniques.

### **DDoS attack detection and mitigation using Machine Learning Techniques in IoT** (June 2021- Present)

Supervisor: Amina Akhter, Ph.D. Candidate, Macquarie University, Australia

- Working to develop an intelligent system by applying machine learning techniques to detect and mitigate DDoS attacks in IoT.
- Writing a review paper to compare and analyze the state-of-art in this domain.

## Honors and Awards

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|---|-------------|
| ◦ <b>University Merit Scholarship for Excellent Academic Performance.</b> | 2013 – 2016 |
| International Islamic University Chittagong (IIUC)                        |             |
| ◦ <b>Best Paper Award.</b> 2nd IEEE ICISSET                               | 2018        |
| Won the best paper award on Data Science track                            |             |

## Technical Skills

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

## Relevant Projects

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### **Fake News Prediction Using Logistic Regression**

- Built a predictive model for fake news detection by applying Logistic Regression algorithm.
- Dataset was collected from Kaggle and contained 20,000 data.

### **Customer Segmentation using K-Means Clustering**

- Achieved customer segmentation by analyzing a shopping mall dataset to understand the target customers so that the knowledge can be given to the marketing team and plan the strategy accordingly.
- Applied K-Means Clustering method.

### **Parkinson's Disease Detection using Support Vector Machine**

- Built a Machine Learning System that can detect Parkinson's Disease. In this case, Support Vector Machine model was used on 'Oxford Parkinson's Disease Detection Dataset'.

### **Stock Management**

- Built a web application by which users can manage portfolios of stocks. This allows users to check real stocks' actual prices, and via this app, they can buy and sell stocks.
- Python, CSS, and HTML were used to develop the application.

## Course Instructed (undergraduate level)

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

## Leadership Experience

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### **Mentor**

August 2020 - Present

AUW Artificial Intelligence Society

- I arrange regular weekly workshops/training sessions with other two mentors, guide students about AI tools, discuss several projects, and create assignments to evaluate them.

### **Student Advisor**

August 2019 - Present

Asian University for Women.

- Besides teaching at AUW, I work as a Student Advisor. As an advisor, I regularly monitor students' performance and help them to develop individual study plans.

## References

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- **Amina Akhter**, Ph.D. Candidate, Macquarie University. Email: [amina.akhter@students.mq.edu.au](mailto:amina.akhter@students.mq.edu.au)
- **Shams Forruque Ahmed**, Associate Professor, Asian University for Women. Email: [shams.ahmed@auw.edu.bd](mailto:shams.ahmed@auw.edu.bd)
- **Muhammed Jamshed Alam Patwary**, Assistant Professor, International Islamic University Chittagong. Email: [mjap@iiuc.ac.bd](mailto:mjap@iiuc.ac.bd)