

## G. M. Shahariar

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### Research Interests

Natural Language Processing, Natural Language Generation, Summarization, Low Resource Language, LLMs, Self-supervised Learning, Interpretability of Language Models, Machine Learning, Deep Learning, Computer Vision.

### Education

Ahsanullah University of Science and Technology (AUST)

Dhaka, Bangladesh

B.Sc. in Computer Science and Engineering

2014 - 2018

CGPA: **3.973**/4.00

*Thesis*: Spam Review Detection using Deep Learning

*Supervisor*: Mr. Faisal Muhammad Shah, Associate Professor, AUST

### Publications [\[Google Scholar\]](#)

(\* denotes equal contribution)

#### Under Review

1. G. M. Shahariar\* and Tonmoy Talukder\*. “**Bangla Key2Text: Text Generation from Keywords in Bengali.**” In *The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2023.
2. Arman Sakif Chowdhury\*, G. M. Shahariar\*, Ahammed Tarik Aziz, Syed Mohibul Alam, Md. Azad Sheikh and Tanveer Ahmed Belal. “**Tackling Fake News in Bengali: Unraveling the Impact of Summarization vs. Augmentation on Pre-trained Language Models.**” *Multimedia Tools and Applications*, 2023.
3. Minaoar Hossain Tanzil, G. M. Shahariar and Gias Uddin. “**Noise Aware Contrastive Learning for Sentiment Detection.**” *46<sup>th</sup> International Conference on Software Engineering (ICSE)*, 2024.

#### Published

1. G. M. Shahariar\*, Tonmoy Talukder\*, Rafin Alam Khan Sotez and Md. Tanvir Rouf Shawon. “**Rank Your Summaries: Enhancing Bengali Text Summarization via Ranking-based Approach.**” To appear in *2<sup>nd</sup> International Conference on Big Data, IoT and Machine Learning (BIM)*, 2023.
2. G. M. Shahariar, Tahmid Hasan, Anindya Iqbal and Gias Uddin. “**Contrastive Learning for API Aspect Analysis.**” To appear in *38<sup>th</sup> IEEE/ACM International Conference on Automated Software Engineering (ASE)*, 2023.
3. G. M. Shahariar, Md Tanvir Rouf Shawon, Anik Hassan Nibir, Md Zabed Miandad, and Nibir Chandra Mandal. “**Automatic back transliteration of Romanized Bengali (Banglish) to Bengali.**” *Iran Journal of Computer Science* 6, no. 1 (2023): 69-80.

4. Md Tanvir Rouf Shawon\*, **G. M. Shahariar\***, Faisal Muhammad Shah, Mohammad Shafiul Alam, and Md Shahriar Mahbub. “**Bengali Fake Review Detection using Semi supervised Generative Adversarial Networks.**” To appear in 5<sup>th</sup> International Conference on Natural Language Processing (ICNLP), 2023.
5. **G. M. Shahariar**, Swapnil Biswas, Faiza Omar, Faisal Muhammad Shah, and Samiha Binte Hassan. “**Spam Review Detection using Deep Learning.**” In 2019 IEEE 10th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), pp. 0027-0033. IEEE, 2019.

## Teaching Experience

**Ahsanullah University of Science and Technology (AUST)** Dhaka, Bangladesh  
 Senior Lecturer October 2021 - Present  
 Department of Computer Science and Engineering  
*Courses: Data Structures, Soft Computing, Elementary Structured Programming*

**Ahsanullah University of Science and Technology (AUST)** Dhaka, Bangladesh  
 Lecturer July 2019 - October 2021  
 Department of Computer Science and Engineering  
*Courses: Algorithms, Elementary Structured Programming, Distributed Database Systems*

**Ahsanullah University of Science and Technology (AUST)** Dhaka, Bangladesh  
 Part Time faculty January 2019 - June 2019  
 Department of Computer Science and Engineering  
*Courses: Algorithms, Data Structures, Digital Image Processing*

## Awards and Honours

- **Best Paper**, Human-Computer Interaction and NLP track, ECCE 2023
- **Khan Bahadur Ahsanullah Gold Medal**, AUST 2023
- **Prime Minister Gold Medal**, University Grants Commission of Bangladesh 2018
- **Dean's List of Honor**, AUST 2018
- **Government Scholarship**, Dhaka Board 2008, 2011, 2013

## Skills

**Languages:** Python, C, C++, Java  
**Database:** MySQL, Oracle  
**Deep Learning Tools:** Keras, Tensorflow, PyTorch, scikit-learn  
**Version Control System:** Git  
**Others:** PL/SQL, LaTeX

## Industrial Experience

**Enosis Solutions** Gulshan, Dhaka  
 Software Engineer October 2018 - December 2018

**Competitive Programming****Problem Solving**

2015 - 2020

- Codeforces (*Handle: [zexon](#)*) [Maximum ratings: 1715]
- Codechef (*Handle: [zexon](#)*) [Maximum ratings: 1847]
- HackerRank (*Handle: [zexon](#)*) [Maximum ratings: 1842]
- UVA Online Judge (*Handle: [Shibli007](#)*) [Problems solved: 418]
- Virtual Judge (*Handle: [Artem\\_](#)*) [Problems solved: 215]
- LightOJ (*Handle: [sshibli745](#)*) [Problems solved: 104]
- Sphere Online Judge (*Handle: [zexon](#)*) [Problems solved: 34]

**Programming Contests**

2015-2018

- ACM ICPC Dhaka Regional 2016 (*Team: [AUST\\_angurFolTok](#)*) [Place: 30<sup>th</sup>]
- ACM ICPC Dhaka Regional 2017 (*Team: [AUST\\_angurFolTok](#)*) [Place: 37<sup>th</sup>]
- SUB IUPC 2017 (*Team: [AUST\\_angurFolTok](#)*) [Place: 23<sup>rd</sup>]
- BUET CSE DAY IUPC 2016 (*Team: [AUST\\_angurFolTok](#)*) [Place: 36<sup>th</sup>]
- AB Bank IUT 8th ICT Fest 2016 (*Team: [AUST\\_angurFolTok](#)*) [Place: 37<sup>th</sup>]
- Intra AUST Programming Contest 2016 (*Team: [dhoe\\_TulsiPata](#)*) [Place: 1<sup>st</sup>]

**Professional Services****President**

February 2022 - Present

AUST Programming and Informatics Club

Ahsanullah University of Science and Technology (AUST)

**Programming Contest Coordinator, Trainer and Coach**

January 2019 - August 2022

Department of Computer Science and Engineering

Ahsanullah University of Science and Technology (AUST)

**Problem Setter & judge**

January 2019 - August 2022

- CodeWare Intra AUST Programming Contest Spring 2018 & 2019
- Intra Aust Programming Contest Fall 2018 & Spring 2020
- AUST Game of Codes Fall 2019

**Reviewer**

2023

Empirical Methods in Natural Language Processing (EMNLP 2023)

**Member**

2020

IT Support Sub-committee

23<sup>rd</sup> International Conference on Computer and Information Technology (ICCIT 2020)