

G. M. Shahariar

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Research Interests

Natural Language Processing (NLP), Natural Language Generation (NLG), Summarization, Low Resource Language, Large Language Models (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

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.**” *46th 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 *2nd 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 *38th 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. M. T. R. Shawon*, **G. M. Shahariar***, F. M. Shah, M. S. Alam and M. S. Mahbub, “**Bengali Fake Review Detection using Semi-supervised Generative Adversarial Networks**,” In *2023 5th International Conference on Natural Language Processing (ICNLP)*, Guangzhou, China, 2023, pp. 12-16, doi: 10.1109/ICNLP58431.2023.00011.
5. Tanveer Ahmed Belal, **G. M. Shahariar**, and Md Hasanul Kabir. “**Interpretable Multi Labeled Bengali Toxic Comments Classification using Deep Learning**.” In *2023 International Conference on Electrical, Computer and Communication Engineering (ECCE)*, pp. 1-6. IEEE, 2023.

Work Experience

Ahsanullah University of Science and Technology (AUST) Senior Lecturer Department of Computer Science and Engineering <i>Courses: Data Structures, Soft Computing, Elementary Structured Programming</i>	Dhaka, Bangladesh October 2021 - Present
Ahsanullah University of Science and Technology (AUST) Lecturer Department of Computer Science and Engineering <i>Courses: Algorithms, Elementary Structured Programming, Distributed Database Systems</i>	Dhaka, Bangladesh July 2019 - October 2021
Ahsanullah University of Science and Technology (AUST) Part Time faculty Department of Computer Science and Engineering <i>Courses: Algorithms, Data Structures, Digital Image Processing</i>	Dhaka, Bangladesh January 2019 - June 2019
Enosis Solutions Software Engineer iQ3Connect Web-Based VR/AR Training and Collaboration	Gulshan, Dhaka October 2018 - December 2018

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

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: 30th]
- ACM ICPC Dhaka Regional 2017 (*Team: [AUST_angurFolTok](#)*) [Place: 37th]
- SUB IUPC 2017 (*Team: [AUST_angurFolTok](#)*) [Place: 23rd]
- BUET CSE DAY IUPC 2016 (*Team: [AUST_angurFolTok](#)*) [Place: 36th]
- AB Bank IUT 8th ICT Fest 2016 (*Team: [AUST_angurFolTok](#)*) [Place: 37th]
- Intra AUST Programming Contest 2016 (*Team: [dhoa_TulsiPata](#)*) [Place: 1st]

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)
Expert Systems with Applications
International Journal of Human-Computer Interaction