

SADIA NUR NAZIFA

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Dhaka, Bangladesh
in home graduation

SUMMARY

- Lecturer in Computer Science and Engineering at the University of Scholars, teaching programming, systems analysis, and competitive programming while mentoring students in contests such as IUPC.
- Over four years of interdisciplinary research experience in Artificial Intelligence, Human-Computer Interaction, IoT, with ongoing projects spanning deep learning, large language models, and public health data analysis.
- Published in international venues including *Scientific Reports*, *Lecture Notes in Networks and Systems*, and IEEE ICCIT, with recognition such as the Best Technical Presentation award (ICCIT 2024).
- Leadership experience as Science Subteam Lead of MIST Mongol Barota, representing Bangladesh in global rover competitions (University Rover Challenge and Anatolian Rover Challenge) with multiple top placements.
- Proficient in Python, JavaScript, C/C++, SQL, MATLAB, and research tools including GitHub, Arduino, AutoML, Figma, and Android Studio.

RESEARCH INTEREST

- Artificial Intelligence, Human-Computer Interaction, Natural Language Processing
- Internet of Things, Machine Learning

EDUCATION

Military Institute of Science & Technology	2020 - 2024
<i>B.Sc. in Computer Science and Engineering</i>	CGPA: 3.33/4.00
Holy Cross College	2017 - 2019
<i>Higher Secondary school Certificate in Science</i>	GPA: 5.00/5.00

PROFESSIONAL EXPERIENCE

Work Bright Business Solutions Data Analyst	March 2025– Present
• Analysing medical and legal records of patients across two software platforms (Zoho and DrChrono), as well as overseeing attorney portals, while ensuring strict confidentiality.	
University of Scholars Lecturer in Department of CSE	August 2024 - Present
• Deliver lectures, guide students in problem-solving, organize programming and project showcase events, and mentor students in their academic and research pursuits.	
Brain Station 23 Intern	Jan 2023 - Feb 2023
• Completed projects using Python and Django, applying algorithm development and full-stack design to solve real-world problems in collaborative team settings.	
MIST Mongol Barota Science Subteam Lead	Jan 2023 - March 2024
• Led the science subteam in integrating science modules into robotics projects, ensuring that all scientific components were aligned with project objectives.	
• Conducted AI/ML research on biomolecule detection methods, focusing on enhancing the efficiency and accuracy of detection in the context of robotics and extraterrestrial exploration.	
MIST Mongol Barota Team Associate	Oct 2020 - Dec 2022
• Researched soil analysis using biomolecules for extraterrestrial environments, focusing on efficient and accurate ML detection methods.	
• Contributed to the University Rover Challenge and Anatolian Rover Challenge through rover system design, development, and project presentation.	

TEACHING EXPERIENCE

Lecturer in CSE | University of Scholars

Spring 2025

- CSE 1213-0613: Structured Programming Language
- CSE 1214-0613: Structured Programming Language Lab
- CSE 2121-0613: System Analysis and Design
- CSE 2122-0613: System Analysis and Design Lab
- CSE 2105-0613: Competitive Programming - I
- CSE 3108-0613: Integrated Design Project - I

Lecturer in CSE | University of Scholars

Fall 2024

- CSE 1213-0613: Structured Programming Language
- CSE 1214-0613: Structured Programming Language Lab
- CSE 2105-0613: Competitive Programming - I
- CSE 2205-0613: Competitive Programming - II
- CSE 2234-0613: Numerical Analysis with MATLAB

ONGOING RESEARCH

- Research on Deep Learning for Healthcare Applications (*Ongoing, Under Review*)
- Development of a Smart IoT and HCI System for agriculture technology
- Comparative study on Deep Learning and Transfer Learning in pattern recognition
- Evaluation of Large Language Models in Natural Language Processing and Usability
- Statistical exploration of Public Health and Self-Medication Patterns in Bangladesh

PUBLICATIONS

1. Ashif Mahmud Joy, Dalia Akter, **Sadia Nur Nazifa**, Shaila Sharmin, and Md. Ahsan Arif. Self Medication Factors in Bangladesh. Version V2. Mendeley Data, 2025. DOI: 10.17632/ycyr7km84w.2
2. **Sadia Nur Nazifa**, Shadmanee Tasneem Mulk, Tasfia Akter Sara, Tasnim Ullah Shakib, and Muhammad Nazrul Islam. “Unlocking Voices: Assessing the Usability and Accessibility of Mobile Applications for Stutter Reduction”. In: 2024 27th International Conference on Computer and Information Technology (ICCIT). 2024, pp. 1016–1021. DOI: 10.1109/ICCIT64611.2024.11022350
3. Akib Zaman, Fardeen Ashraf, Haseena Khan, Faria Noshin Ahona, Oliullah Samir, Asif Mahmud Rayhan, **Sadia Nur Nazifa**, Hafsa Chowdhury, and Md. Mahbubur Rahman. “A multiple biomolecules-based rapid life detection protocol embedded in a rover scientific subsystem for soil sample analysis”. In: Scientific Reports 14.26645 (2024). DOI: <https://doi.org/10.1038/s41598-024-77808-6>
4. Tasfia Sara, **Sadia Nur Nazifa**, Shadmanee Tasneem, Tasnim Ullah Shakib, and MD Nazrul Islam. “PPDHero: Requirements Elicitation and Development of a System to Empower New Mothers on Postpartum Depression”. In: Lecture Notes in Networks and Systems 1051 (2024). DOI: 10.1007/978-3-031-64850-2_37

NOTABLE MILESTONES

- **Received the Best Technical Presentation award**, the 27th IEEE ICCIT 2024
- **5th in Anatolian Rover Challenge (ARC)**, the Space Exploration Society (UKET), Turkiye. 2023
- **2nd Runners up in Anatolian Rover Challenge (ARC)**, the Space Exploration Society (UKET), Turkiye. 2022
- **1st in virtual University Rover Challenge (URC)**, the Mars Society, USA. 2021

SKILLS

Programming Languages: Python, JavaScript, C/C++, PHP, SQL, Assembly Language, HTML/CSS, Shell, Oracle, LaTeX, Java

Tools: MATLAB, GitHub, Arduino, Cisco Packet Tracer, Proteus, Flutter, AutoML, Figma, Android Studio, Blender