

Towsif Alam Chowdhury

Curriculum Vitae

CONTACT INFORMATION

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Additional Resources: [Github](#), [LinkedIn](#), [ResearchGate](#)

RESEARCH INTEREST

My primary field of research interest is Artificial Intelligence (AI). Within AI, I am interested in problems related to **Computer Vision**, **Artificial Neural Networks**, and **Reinforcement learning**. In particular, my research incorporates problems related to machine learning and deep learning.

EDUCATION

January 2017 - April 2021

Bachelor of Science in Computer Science and Engineering

North South University(NSU)

Dhaka, Bangladesh

- CGPA - 3.60/4.00
- Distinction - Cum Laude
- Specialized Trail - Artificial Intelligence

WORK EXPERIENCE

September 2022 - Present

Assistant Manager

Samsung R&D Institute Bangladesh

Dhaka, Bangladesh

- Read and analyze technical documents to find prior arts for patent filing
- Plan and develop research and innovation strategies according to the most prominent tech domains
- Performs detailed evaluations of internal & external technologies to ensure world-class technology development and utilization

April 2022 - August 2022

Intern

Samsung R&D Institute Bangladesh

Dhaka, Bangladesh

- Read and analyze technical documents to find prior arts for patent filing
- Perform a comprehensive search to ensure the most relevant prior art is located and provide a logical and complete search history

May 2021 - May 2022

Research Assistant

Department of ECE, North South University

Dhaka, Bangladesh

- Analyzing different research methodologies and designing algorithms
- Development of code and experimental platforms, running experiments and analyzing data using machine learning

October 2021 - April 2022

Lab Instructor

Department of Mathematics and Physics, North South University
Dhaka, Bangladesh

- Independently teach undergraduate lab classes and provide consultation to students
- Assist in the preparation of lab manuals and responsible for grading and marking the students in their lab classes

March 2020 - January 2022

Teaching Assistant

Department of ECE, North South University
Dhaka, Bangladesh

- Facilitate a discussion section or tutorial; hold weekly office hours; grade homework, programming assignments, exams, or projects; keep records; prepare answer keys or supplementary notes
- Assisting faculty with record keeping, such as tracking attendance and calculating grades

RESEARCH EXPERIENCE

Journal Paper

- Youme, S. K., **Chowdhury, T. A.**, Ahamed, H., Abid, M. S., Chowdhury, L., & Mohammed, N. (2021). **Generalization of Bangla Sign Language Recognition Using Angular Loss Functions**. IEEE Access, 9, 165351–165365. doi:10.1109/ACCESS.2021.3134903
- Youme, S. K., **Chowdhury, T. A.**, Ahamed, H., Abid, M. S., Sohrawardi, R. B., & Siddique, S. (2021). **RER: Recycled Experience Replay, Blending Oldest Memories with Recent Selective Experiences to Improve Remembering**. (Work-in-Progress)

Conference Paper

- Youme, S. K., H., Abid, M. S., **Chowdhury, T. A.**, Ahamed, & Siddique, S. (2021). **Local Climate Zone Mapping using Clustering Algorithms: A case study of Dhaka, Bangladesh**. (Accepted)

GRANTS

Name of Grant	CTRG 2021-2022
Grant offered by	North South University, Dhaka, Bangladesh
Project Title	High performance less resource-intensive Deep Reinforcement Learning methods for applications in autonomous agents and search and rescue robotics
Grant amount	BDT 500,000
Role	Research Assistant

TECHNICAL SKILLS

Programming Languages	Python, C
Familiar with	Java, C++, CSS, HTML, JavaScript, SQL, Assembly, LaTeX, MATLAB, Flutter
Operating Systems	Windows, Linux
Libraries	PyTorch, Tensorflow, Pandas, Scikit-learn
Database Tools	Firebase, MySQL
Others	Machine learning, Deep learning, Data Science, Android Development

LANGUAGE PROFICIENCY

IELTS	8.0 (L-9, R-7, W-6.5, S-8.5)
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REFERENCES

Academic and Professional references are available upon request.