Tanzina Taher Ifty

George Mason University

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Education

George Mason University **Fairfax, VA, USA**
Ph.D in Electrical and Computer Engineering *Fall 2025 - Ongoing*

Ahsanullah University of Science and Technology **Dhaka, Bangladesh**
B. Sc. in Computer Science and Engineering *Spring 2019 - Fall 2022*
CGPA: 3.531 on a scale of 4.00

Ideal School and College **Dhaka, Bangladesh**
Higher Secondary Certificate *2016 - 2018*
GPA: 5.00 on a scale of 5.00

Motijheel Model School and College **Dhaka, Bangladesh**
Secondary School Cetificate *2016*
GPA: 5.00 on a scale of 5.00

Work Experience

Graduate Teaching Assistant **Fairfax, VA, USA**
Dept of Electrical and Computer Engineering
George Mason University *Fall 2025 - Present*

Research Interests

Machine Learning Applications, Computer Vision, Natural Language Processing, Robotics

Publications

- **Tanzina Taher Ifty**, Saleh Ahmed Shafin, Shoeb Mohammad Shahriar & Tashfia Towhid. **"Explainable Lung Disease Classification from Chest X-Ray Images Utilizing Deep Learning and XAI"**. Published in *IEEE International Conference on Computing and Machine Intelligence (ICMI 2024), Central Michigan University (CMU), Michigan, USA.*
- **Tanzina Taher Ifty** & Swapnil Sharma Sarker. **"Automated and Context-Aware Code Documentation Leveraging Advanced LLMs"**. Submitted to *ACL Rolling Review.*

Current Research

- Leveraging LLMs into Robotics
- Leveraging LLMs to generate Code Documentation

- Researching LLM security and developing frameworks for real-time mitigation.

Technical Skills

Languages: Python, C, C++, C#, JAVA, HTML5, PHP, JavaScript, 80x86 Assembly
Framework: CSS, WebGL
Database: MySQL
Design Tools: NetBeans, Microsoft Visual Studio, Jupyter Notebook
Operating System: Windows, Android
Deep Learning Tools: Keras, Tensorflow, Pytorch
Others: PL/SQL, LaTeX