

Farzad Ahmed

Ahsanullah University of Science and Technology

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🌐 <https://farzad-1996.github.io>

ResearchGate: <https://www.researchgate.net/profile/Farzad-Ahmed>

Github: <https://github.com/Farzad-1996>

Education

George Mason University

2nd-Year Ph.D. in Computer Science

Fairfax, VA, USA

Fall 2023 - Ongoing

Ahsanullah University of Science and Technology

B. Sc. in Computer Science and Engineering

Dhaka, Bangladesh

Fall 2015 - Spring 2019

CGPA: 3.923 on a scale of 4.00 (1st in Merit Position)

Mastermind School

A levels

Dhaka, Bangladesh

2013 - 2015

GPA: 5.00 on a scale of 5.00

Mastermind School

O levels

Dhaka, Bangladesh

2013

GPA: 5.00 on a scale of 5.00

Research Interests

Machine Learning, Deep Learning, Natural Language Processing, Health Informatics

Publications

- **Farzad Ahmed**, Özlem Uzuner, Meliha Yetisgen and Sungsoo Ray Hong "**Advancing Sarcasm Detection with Large Language Models and Explainable AI**". Submitted for publication (under review) in *The 31st International Conference on Computational Linguistics, 2024*
- Faisal Muhammad Shah, Sajib Kumar Saha Joy, **Farzad Ahmed**, Tonmoy Hossain, Mayeesha Humaira, Amit Saha Ami, Shimul Paul, Md Abidur Rahman Khan Jim & Sifat Ahmed. "**A Comprehensive Survey of COVID-19 Detection Using Medical Images**". Published in *SN Computer Science A Springer Nature Journal, 2021*
- **Farzad Ahmed**, Samiha Sultana, Md Tanzim Reza, Sajib Kumar Saha Joy and Md. Golam Rabiul Alam "**Interpretable Movie Review Analysis Using Machine Learning and Transformer Models Leveraging XAI**". Published in *IEEE Asia-Pacific Conference on Computer Science and Data Engineering 2022 (IEEE CSDE 2022) Gold Coast, Australia*
- Sajib Kumar Saha Joy, **Farzad Ahmed**, Al Hasib Mahamud and Nibir Chandra Mandal "**An Empirical Studies on How the Developers Discussed about Pandas Topics**". Published in *International Conference on Machine Intelligence and Emerging Technologies (MIET 2022), Noakhali, Bangladesh*

- Md Tanzim Reza, **Farzad Ahmed**, Shihab Sharar, Annajiat Alim Rasel "**Interpretable Retinal Disease Classification from OCT Images Using Deep Neural Network and Explainable AI**". Published in *International Conference on Electronics, Communications and Information Technology 2021 (ICECIT 2021)*
- Faisal M. Shah, **Farzad Ahmed**, Sajib Kumar Saha Joy, Sifat Ahmed, Samir Sadek, Rimon Shil and Md. Hasanul Kabir. "**Early Depression Detection from Social Network Using Deep Learning Techniques**". Published in *2020 IEEE Region 10 Symposium (TENSYP)*, 5-7 June 2020, Dhaka, Bangladesh
- Noushin Afrin, Md Mahamudul Hasan, Mohammed Fazlay Elahi Safin, Khondakar Rifat Amin, Md Zahidul Haque, **Farzad Ahmed**, Md Tanvir Rouf Shawon. "**Bengali License Plate Recognition: Unveiling Clarity with CNN and GFP-GAN**". Published in *2023 26th International Conference on Computer and Information Technology (ICCIT)* 13-15 December 2023, Cox's Bazaar, Bangladesh
- Aysha Gazi Mouri, Purnendu Talukder, Tanvir Rahman Anik, Ifti Sam Ibn Rahman, Sajib Kumar Saha Joy, Md Tanvir Rouf Shawon, **Farzad Ahmed**, Nibir Chandra Mandal "**An Empirical Study on Bengali News Headline Categorization Leveraging Different Machine Learning Techniques**". Published in *2022 25th International Conference on Computer and Information Technology (ICCIT)*, Bangladesh
- MTR Shawon, GM Shibli, **Farzad Ahmed**, SKS Joy Farzad Ahmed, Nibir Chandra Mandal "**Explainable cost-sensitive deep neural networks for brain tumor detection from brain mri images considering data imbalance**". Submitted for publication (under review) in *Multimedia Tools and Applications, A Springer Journal*, 2024

Current Research

- Medical Fact Checking

Experience

Graduate Research Assistant

Department of Computer Science
George Mason University, Fairfax, VA, USA

May 2024 - Present

Graduate Teaching Assistant

Department of Computer Science
George Mason University, Fairfax, VA, USA

August 2023 - May 2024

Lecturer

Department of Computer Science & Engineering
Ahsanullah University of Science and Technology, Dhaka, Bangladesh

January 2021 - August 2023

Lecturer (Part Time)

Department of Computer Science & Engineering
BRAC University, Dhaka, Bangladesh

February 2020 - December 2020

Technical Skills

Languages: Python, C, C++, C#, JAVA, HTML5, PHP, XML, JavaScript, 80x86 Assembly

Framework: CSS, WebGL

Database: MySQL

Design Tools: Eclipse, NetBeans, Microsoft Visual Studio, PyCharm, Jupyter Notebook

Deep Learning Tools: Keras, Tensorflow, Pytorch

Others: PL/SQL, LaTeX

Awards & Achievements

- "Reached 150+ citations on my Google Scholar profile."
- "Dean's List of Honor" (based on B.Sc. result)
- Certificate on Presentation at 2020 IEEE Region 10 Symposium (TENSYP), 5-7 June 2020, Dhaka, Bangladesh
- Certificate for completing the courses "Neural Networks and Deep Learning" & "Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization" in Coursera
- Undergraduate admission sub-committee member of 3 consecutive semesters at Ahsanullah University of Science and Technology

Extracurricular Activities

- Advisor of Cefalo CodeFiesta 2022: AUST Inter University Programming Contest
- Organizer at ICCIT 2020: The 23rd International Conference on Computer and Information Technology
- Organizer of Intra-AUST Programming Contest Fall 2018