

Mohammad Naimul Islam Shanto

Computer Science Engineer and Researcher

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Research Interest

My research interests lie at the intersection of artificial intelligence and human health with a background in medical imaging, computer vision, NLP, and machine learning. Building on this foundation, I aim for Large Language Models, Vision Language Models, Multimodal Reasoning, Deep Learning, or being open to working on any field for Scientific Discovery to improve well-being and deliver meaningful impact.

Education

-  **Kennesaw State University, Georgia, USA** 2025 - Present
Doctor of Philosophy in Computer Science,
College of Computing and Software Engineering
-  **International Islamic University Chittagong, Bangladesh** 2020 - 2024
Bachelor of Science in Computer Science and Engineering
Thesis: Enhancing Heart Disease Prediction from Echocardiographic Reports Using DistilRoBERTa, BETO, and DistilBERT.
supervisor: Dr. Mohammad Aman Ullah
(CGPA: 3.654/4.00) ranked among the top 10% students.

Experience

- **Graduate Teaching Assistant** August 2025 - Present
Department of Computer Science, College of Computing and Software Engineering,
Kennesaw State University, Georgia, USA
Conducting Courses:
 - Program Problem Solving I Lab
 - Program Problem Solving II Lab
- **Adjunct Lecturer** February 2025 - August 2025
Department of Computer Science and Engineering,
International Islamic University Chittagong, Bangladesh
Conducted Courses:
 - Compiler, Compiler Lab
 - Systems Analysis and Design
- **Undergraduate Teaching Assistant** January 2023 - June 2024
Department of Computer Science and Engineering,
International Islamic University Chittagong, Bangladesh
Courses:
 - Compiler Lab (2 Semester)
 - Technical Writing (1 Semester).

Publications

Published

- [1] **M. N. I. Shanto**, M. T. Mubtasim, S. V. Rakshit and M. A. Ullah, "Enhanced Classification of Brain Tumors from MRI Scans Using a Hybrid CNN-Transformer Model," 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 2025, pp. 1-6, doi: [10.1109/QPAIN66474.2025.11171896](https://doi.org/10.1109/QPAIN66474.2025.11171896)
- [2] **M. N. I. Shanto**, M. S. Uddin, A. Islam, T. R. Dipta, M. S. M. Rabby and M. Khaliluzzaman, "An Interpretable Skin Cancer Classification Using Optimized Deep Transfer Learning Method," 2024 International Conference on Innovations in Science, Engineering and Technology (ICISET), Chittagong, Bangladesh, 2024, pp. 1-6, doi: [10.1109/ICISET62123.2024.10941624](https://doi.org/10.1109/ICISET62123.2024.10941624).
- [3] **M. N. I. Shanto**, A. Islam, M. S. Uddin, M. T. Mubtasim, A. Rahman and M. A. Ullah, "Innovative Approach to Precision Botany: Hybrid Learning for Superior Medicinal Plant Identification," 2024 27th International Conference on Computer and Information Technology (ICCIT), Cox's Bazar, Bangladesh, 2024, pp. 2080-2085, doi: [10.1109/ICCIT64611.2024.11022365](https://doi.org/10.1109/ICCIT64611.2024.11022365).
- [4] A. Islam, **M. N. I. Shanto**, M. S. M. Rabby, A. R. Sikder, M. S. Uddin, M. N. Arefin, and M. J. A. Patwary, "Eggplant Yield Prediction Utilizing 130 Locally Collected Genotypes and Machine Learning Model," 2023 26th International Conference on Computer and Information Technology (ICCIT), Cox's Bazar, Bangladesh, 2023, pp. 1-6, doi: [10.1109/ICCIT60459.2023.10441036](https://doi.org/10.1109/ICCIT60459.2023.10441036).
- [5] M. S. M. Rabby, M. Uddin, E. Islam, M. Khaliluzzaman, **M. N. I. Shanto** and A. Islam, "A Modified Transfer Learning-Based Framework for Efficient Food Image Classification," 2024 IEEE International Conference on Computing, Applications and Systems (COMPAS), Cox's Bazar, Bangladesh, 2024, pp. 1-6, doi: [10.1109/COMPAS60761.2024.10796682](https://doi.org/10.1109/COMPAS60761.2024.10796682).
- [6] T. R. Dipta, M. S. M. Rabby, T. Ahmed, M. M. H. Chowdhury, **M. N. I. Shanto** and M. Khaliluzzaman, "Advancements in Medical Imaging: A Deep Learning Approach for Kidney Disease Classification," 2024 IEEE International Conference on Computing, Applications and Systems (COMPAS), Cox's Bazar, Bangladesh, 2024, pp. 1-6, doi: [10.1109/COMPAS60761.2024.10796643](https://doi.org/10.1109/COMPAS60761.2024.10796643).
- [7] A. Islam, Y. Islam, T. R. Dipta, **M. N. I. Shanto** and M. S. M. Rabby, "Predicting Low and Normal Phosphorus Tolerance in Maize Using Advanced Ensemble Classifiers," 2024 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET), Rajshahi, Bangladesh, 2024, pp. 1-6, doi: [10.1109/ICRPSET64863.2024.10955890](https://doi.org/10.1109/ICRPSET64863.2024.10955890).
- [8] A. Islam, **M. N. I. Shanto**, T. R. Dipto, M. S. M. Rabby and H. F. Monna, "Classifying Heart Diseases: An Ensemble Technique Combining With Federated Learning," 2024 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET), Rajshahi, Bangladesh, 2024, pp. 1-6, doi: [10.1109/ICRPSET64863.2024.10955879](https://doi.org/10.1109/ICRPSET64863.2024.10955879).

Under Review

- [1] **Mohammad Naimul Islam Shanto**, Md. Sayem Uddin, Tawsif Mubtasim and Dr. Mohammad Aman Ullah. "Precision Prediction of Chronic Kidney Disease Using an Optimized Stacking Ensemble Model with SHAP and LIME-Based Explainability" (Applied Computational Intelligence and Soft Computing, Wiley Peer-Reviewed Journal).

Under Preparation

- [1] **Mohammad Naimul Islam Shanto**, Md. Sayem Uddin and Dr. Mohammad Aman Ullah. "Enhancing Heart Disease Prediction from Colour Doppler Echocardiographic Reports Using DistilRoBERTa, BETO, and DistilBERT." (Preparing for Heliyon Peer-reviewed journal).
- [2] **Mohammad Naimul Islam Shanto**, Tawsif Mubtasim and Dr. Mohammad Aman Ullah. "LungNetFL: A Lightweight CNN Model for Lung Cancer Detection with Federated Learning Integration." (Preparing for Computers in Biology and Medicine, Peer-reviewed journal by Elsevier)

Achievements

- Received full tuition waiver for Ph.D. program.
- Received tuition waivers for academic excellence in Undergraduate:
 - 50% tuition waiver for 2 semesters
 - 25% tuition waiver for 3 semesters
- **1st Runner up** in CSE Project Show 2024 (Course: Machine Learning Lab) – Organized by International Islamic University Chittagong, Chittagong, Bangladesh.
- **Champion** in CSE Project Show 2023(Course: Microprocessor and Microcontroller Lab) – Organized by International Islamic University Chittagong, Chittagong, Bangladesh.
- **1st Runner up** in CSE Project Show 2023 (Course: Computer Security Lab) – Organized by International Islamic University Chittagong, Chittagong, Bangladesh.
- In **Top 5** Team in Mobile Application Competition 2023 (Tech fest 2023) – Organized by Faculty of Science and Engineering, International Islamic University Chittagong, Chittagong, Bangladesh.

Memberships

The Institute of Electrical and Electronic Engineers (IEEE), NY, USA | IEEE Computer Society | IEEE Communication Society | IEEE Women in Engineering | IEEE Young Professionals Membership ID: 98461804

Extra Curriculum Activities

- **Secretary (Activities) - IEEE Computer Society IIUC Student Branch Chapter, 2023/24.**
Keeping track of important documents, files, and records related to IEEE IIUC SB activities. This may include event proposals, event reports, and other relevant documentation.
- **Secretary (Activities) - IEEE IIUC Student Branch, 2023/24.**
International Islamic University Chittagong, Organized different types of workshops, events, seminars, webinars, etc. Arranged webinar on Higher Study | Introduction of ChatGPT and so on.
- **Assistant Press and Publication Secretary - IIUC Computer Club, 2023.**
Maintained and managed forward press schedules and media activity to inform prioritization, auditing and reporting. Volunteer-Summer Symposium and so on.
- **HOD - Corporate and External Affairs - HULT PRIZE IIUC, 2023-24**
As HOD-Corporate and External Affairs for HULT PRIZE IIUC 2023-24, you're responsible for building partnerships with sponsors and external stakeholders. You oversee outreach and communications to boost event visibility and secure support.
- **Volunteer - IIUC Rover Scout, 2023.**
Rover Scouts, Rovers, Rover Scouting or Rovering is a program associated with some Scouting organizations for adult men and women.
- **Founder Member and Vice Treasurer - Shotoshfurto.**
Shotoshfurto is a non-profit organization that brings happiness to underprivileged people. With the power of youth, it is expanding over the country.