

# Md. Atiqur Rahman

[Website](#)

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## RESEARCH INTERESTS

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My past work and research interests span a range of topics, including, Medical Image Analysis, Few Shot Learning, Federated Learning, Sign Language Recognition, Bioactivity Prediction & LLM-driven NLP.

## EDUCATION

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- **Islamic University of Technology (IUT)** Dhaka, Bangladesh  
*Bachelor of Science in Computer Science and Engineering; GPA: 3.98 (Ranked: 1<sup>st</sup>/99)* Jan 2019 - May 2023
  - **Thesis:** Recognizing Traffic Signs using Fine-tuning Based Few Shot Object Detection.

## RESEARCH

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- LLM-Based Evaluation of Low-Resource Machine Translation: A Reference-less Dialect Guided Approach with a Refined Sylheti-English Benchmark  
Md Atiqur Rahman, Sabrina Islam, and Mushfiqul Haque Omi  
*CLNLP 2025* [[Paper](#)] [[Code](#)] [[Dataset](#)]
- Bdsl-spoter: A transformer-based framework for bengali sign language recognition with cultural adaptation  
Sayad Ibna Azad and Md. Atiqur Rahman  
*ISVC 2025* [[Paper](#)] [[Code](#)] [[Dataset](#)]
- Personalized Federated Segmentation with Shared Feature Aggregation and Boundary-Focused Calibration  
Ishmam Tashdeed, \*Md. Atiqur Rahman, Sabrina Islam and Md. Azam Hossain  
*Under Review* [[Paper](#)] [[Code](#)]
- FUSED-Net: Detecting Traffic Signs with Limited Data  
Md. Atiqur Rahman, Nahian Ibn Asad, Md. Mushfiqul Haque Omi, Md. Bakhtiar Hasan, Sabbir Ahmed and Md. Hasanul Kabir  
*Under Review* [[Paper](#)] [[Code](#)] [[Dataset](#)]
- Cardosum: Patient friendly echocardiography report summarization  
Sabrina Islam, Md Atiqur Rahman, Dr. Mohammad Arifur Rahman, Dr. Shahimur Parvez, and Md. Hasanul Kabir.  
*Preprint* [[Overview](#)]
- Rep3net: An approach exploiting multimodal representation for molecular bioactivity prediction  
Sabrina Islam, Md Atiqur Rahman, Md. Bakhtiar Hasan, and Md. Hasanul Kabir  
*Preprint* [[Overview](#)]

## TEACHING EXPERIENCE

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- **Islamic University of Technology** Dhaka, Bangladesh  
*Lecturer, Department of Computer Science and Engineering* Aug 2023 - Present
  - **Courses:** Mobile Application and Development, Software Security, E-commerce and Web Security, Simulation and Modeling.
  - Advising 2 undergraduate research groups on 3D Medical Image Segmentation and Virtual Try On.
- **United International University** Dhaka, Bangladesh  
*Lecturer, Department of Computer Science and Engineering* June 2023 - August 2023
  - **Courses:** Theory of Computing, Digital Logic Design and Structured Programming.

## INDUSTRY EXPERIENCE

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- **Battery Low Interactive Ltd** Dhaka, Bangladesh  
*Game Developer Intern* Oct 2021 – Nov 2022
  - **Save The Assassin:** A dynamic 2D game built using C# and Unity Game Engine. [\[Code\]](#) [\[Game\]](#)

## PROJECTS

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- **SpikeX:** Exploiting Spiking Neural Networks to develop an energy-efficient YOLOv4. [\[Code\]](#)
- **Few Shot Traffic Sign Classification:** Utilizing metric based few shot classifiers for bench-marking GTSRB. [\[Code\]](#)

## TECHNICAL SKILLS

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**Deep Learning Tools:** PyTorch, Hugging Face, JupyterLab/Colab, Scikit Learn, Keras.

**Programming Languages:** Python, C, C++, C, SQL, Bash, Java, JavaScript.

**General Tools:** Git,  $\text{\LaTeX}$ , Draw.io, Visual Studio Code, RunPod.

## AWARDS & ACHIEVEMENTS

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- Best Paper Award in CLNLP 2025.
- IUT Seed Grant 2022 under grant no. REASP/IUT-RSG/2022/OL/07/011 - Awarded for my undergraduate thesis in the Department of Computer Science and Engineering (CSE) at the Islamic University of Technology (IUT).
- Full OIC Scholarship 2019.