Md. Atiqur Rahman

Email
GitHub
Google Scholar
Website

RESEARCH INTERESTS

My past work and research interests span a range of topics, including, Medical Image Analysis, Few Shot Learning, Federated Learning, Multimodal Learning and Vision Based Recognition Tasks. Currently, I am working on the automatic webpage generation task using Vision Language Models and Reinforcement Learning.

EDUCATION

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

- **Islamic University of Technology (IUT)** — Gazipur, Bangladesh
  Master of Science in Computer Science and Engineering; Current GPA: 3.95 — *Sep 2023 - Present*

RESEARCH

- 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[1], **Md. Atiqur Rahman**[1], 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]

- Rep3Net: An approach exploiting multimodal representation for molecular bioactivity prediction
  Sabrina Islam[1], **Md. Atiqur Rahman**[1], Md. Bakhtiar Hasan, and Md. Hasanul Kabir
  Preprint [Paper] [Code] [Dataset]

- CardoSum: Patient friendly echocardiography report summarization
  Sabrina Islam[1], **Md. Atiqur Rahman**[1], Dr. Mohammad Arifur Rahman, Dr. Shahimur Parvez, and Md. Hasanul Kabir.
  Preprint [Overview]

TEACHING EXPERIENCE

- **Islamic University of Technology** — Gazipur, Bangladesh
  Lecturer, Department of Computer Science and Engineering — *Aug 2023 - Present*
  - **Courses:** Mobile Application and Development, Software Security, E-commerce and Web Security, Algorithm Engineering, 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 — *Jun 2023 – Aug 2023*
  - **Courses:** Theory of Computing, Digital Logic Design and Structured Programming.

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[1]These authors contributed equally

Industry Experience

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

Projects

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

Technical Skills

Deep Learning Tools: PyTorch, Hugging Face, JupyterLab/Colab, Scikit Learn, Keras.
Programming Languages: Python, C, C++, C#, SQL, Bash, Java, JavaScript.
General Tools: Git, LaTeX, Draw.io, Visual Studio Code, RunPod.

Awards & Achievements

- 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.