

Md. Mizanur Rahman

rahmamizan1@gmail.com

 Mizan Rahman |  StrikingHour |  striking_hour

Rajshahi, Bangladesh

EDUCATION

- **Rajshahi University of Engineering and Technology** February 2020 - June 2025 (expected)
Bachelor of Computer Science and Engineering Rajshahi, Bangladesh
 - GPA: 3.79/4.00 (as of Level - 3 Term -2)
- **Notre Dame Collage** May 2019
Higher Secondary Certificate Dhaka, Bangladesh
 - GPA: 5.00/5.00
- **Khwaja Yunus Ali Laboratory School and College** March 2017
Secondary School Certificate Sirajganj, Bangladesh
 - GPA: 5.00/5.00

PUBLICATIONS





C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [J.1] (In perparation) **A Novel Approach of Secure Audio Transmission in Post-quantum Era.**
Md. Raisul Islam Rifat, Md. Mizanur Rahman, Md. Abdul Kader Nayon, Md Shawmoon Azad and M.R.C. Mahdy.
Quantum Science and Technology.
 - Designed a novel scheme of secure audio communication by incorporating E-91 Quantum Key Distribution with SHA-3 Hashing Algorithm, ChaCha20-Poly1305 AEAD and LSB steganography.
- [S.1] (In perparation) **Detection of Hallucination in Multimodal Large Language Models Across the Modalities: A Comprehensive Review.**
Md. Mizanur Rahman
(<https://drive.google.com/file/d/1RrxYucldx3S6yjjzBlvQAnPB5T1u5DQ3J/view?usp=sharing>)
 - Describe the basic building block and training methods of MLLMs.
 - Reviewed hallucination metrics and benchmarks in MLLMs across the text, image, audio and video modalities.

RESEARCH EXPERIENCE

- **Familiarization with Quantum Computing, Quantum Key Distribution and Post-quantum Cryptography.** 2024-2025
Supervisor: M.R.C Mahdi, Department of Electrical and Computer Engineering, North South University, Bashundhara, Dhaka
 - Learned about Quantum Matrix Mechanics and implemented BB84, B92 and E91 Quantum Key Distribution protocols as well as Quantum-safe Cryptography schemes such as Lattice-based cryptography using QISKIT.

PROJECTS

- **Build Large Language Model from Scratch** 2025 
 - Developed a GPT-like LLM from scratch with the help of the Book titled Build Large Language Model (From Scratch) by Sebastian Raschka
- **Hands on Large Language Model** 2023 
 - Text Classification: Classified text with both representative and generative models
 - Text Clustering and Topic Modeling: Clustered documents using a wide variety of language models.
- **Micrograd: A tiny Autograd engine** 2025 
 - Developed Micrograd, which implements backpropagation (reverse-mode autodiff) over a dynamically built DAG and a small neural network library on top of it with a PyTorch-like API.
- **Simulation of a 5-bit CPU in Digital Simulator and Verification of Its Correctness Using Sample Code Stored in ROM** 2024 
 - A 5-bit CPU was simulated using a digital simulator and verified by executing sample code stored in ROM. The CPU supports OR, ADD, and SHR operations, with 5 registers, a 10-word RAM (15-bit word size), and instructions including register-based, immediate, and branching (JMP, JL).

SKILLS

- **Competitive Programming:** Codeforce (Pupil, Solved 800+ Problems), Codechef(3*)
- **Programming Languages:** C, C++, C#, Python, Java, Assembly, Verilog.
- **Data Science & Machine Learning:** NumPy, Pandas, Matplotlib, TensorFlow.
- **Databases:** MySQL, PostgreSQL

LANGUAGE PROFICIENCY

- **English:** Proficient
- **Bengali:** Native Language

REFERENCES

Dr. Mahdy Rahman Chowdhury
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North south University, Dhaka
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