Rezwanul Haque

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EDUCATION

Rajshahi University of Engineering & Technology — Rajshahi, Bangladesh

B.Sc. in Computer Science & Engineering — Jan. 2018 - Sept. 2023

CGPA: 3.62 out of 4.00 | Top 10%

Relevant Coursework: Applied Statistics and Queuing Theory, Digital Image Processing, Neural Networks, Artificial Intelligence, Data Mining

Notre Dame College — Dhaka, Bangladesh

Higher Secondary School Certificate | Group: Science — 2017

GPA: 5.00 out of 5.00

RESEARCH ASPIRATIONS

R. Haque, et al. "Evaluating the Efficacy of Feature Selection Methods in Cardiovascular Disease Prediction with Machine Learning." In *Proceedings of the 6th International Conference on Electrical Information and Communication Technology (EICT 2023, Bangladesh).* [DOI]

- **First Author**

ACB-TriNet: Asymmetric Convolutions and Triplet Attention for Effective Malware Classification

- Accepted for publication in International Conference on Emerging Trends in Cybersecurity (**ICETCS 2025, UK**)
- **First Author**

Impact of COVID-19 on Bangladeshi University Students' Mental Health: Machine and Deep Learning Analysis with Privacy and Secure Health Monitoring Considerations

- Accepted for publication in International Conference on Emerging Trends in Cybersecurity (**ICETCS 2025, UK**)
- **First Author**

LoRaMPP: Optimizing IoT Messaging Efficiency Using Unlicensed Spectrum

- Accepted for publication in International Conference on Emerging Trends in Cybersecurity (**ICETCS 2025, UK**)
- **Second Author**

Enhanced Sentiment Classification of IMDB Movie Reviews Using Ensemble Machine Learning Techniques

- Accepted for publication in International Conference on Emerging Trends in Cybersecurity (**ICETCS 2025, UK**)
- **Third Author**

Smart Waste Management Using IoT and Artificial Intelligence with QR Code Reward System

- Submitted at 11th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2025

An Explainable Framework for Analyzing Black-Box Machine Learning Models in Cardio Vascular Disease Prediction

- Focused on conducting in-depth analysis of black-box machine learning models to enhance their interpretability using explainable AI techniques.
- **Undergraduate Thesis**

Mosquito Larvae Detection Using Deep Learning for Disease Control in Bangladesh

- Proposed a custom YOLOv8 backbone with CBAM (Channel and Spatial Attention) and optimized hyperparameters for better performance.
- **Ongoing research.**

Work Experience

Uttara University   Plot 5, Dhour Road, Turag, Uttara, Dhaka 1230, Bangladesh
Department of Computer Science & Engineering   *November 2023 – Present*

- **Lecturer** (Nov 2023 – Present)
  * Conduct lectures and mentor students in core Computer Science subjects.
  * Engage in academic research and curriculum development.
- **Assistant Proctor** (Aug 2024 – Present)
  * Collaborate with university administration to maintain a safe and conducive learning environment.
- **Advisor, Happiness and Well-being Club** (Feb 2025 – Present)
  * Guide and mentor students in organizing activities promoting mental health and well-being.

Personal Projects

Instagram Scraping | *Python, Beautiful Soup, Instagram API*   Jan. 2019
- Created an web scraping project to extract and download images from instagram user profiles, utilizing the 'Beautiful Soup' library in Python.

Union Parishad Portal | *JavaScript, HTML, CSS*   Nov. 2021
- Collaborating with the UP chairman and student coordinator, I developed a website using ES6 JavaScript, HTML, and CSS to automate Birth Certificate registration, reducing processing time and benefiting residents.
  [GitHub Link]

Restaurant Website Project | *NodeJS, Express, MongoDB, JavaScript, HTML, CSS*   Sept. 2022
- Developed a full-stack web app with a REST API and MongoDB Atlas. Backend in Node.js Express features user authentication, admin functions, and security, while the frontend (JS, HTML, CSS) enables reservations, menu viewing, and reviews.
  [Back-End GitHub Link]   [Front-End GitHub Link]

Heart Disease Prediction | *Python, Scikit-learn, NumPy, Pandas, Matplotlib*   June 2023
- Achieved SOTA results using only five selected features, and evaluated multiple combinations of feature selection strategies and learning algorithms to identify the best model for CVD prediction.
  [Implementation Available upon Request]

Language Proficiency

IELTS Academic: Overall Band Score – **7.0**
Listening: 7.5   —   **Reading:** 8.0   —   **Writing:** 6.0   —   **Speaking:** 6.5

Leadership & Administrative Experience

Class Representative at CSE, RUET For Four Consecutive Years
- Managed 180 students and respective teachers directly.
- Established effective communication and collaboration mindset.

Organizing RUET CSE Fest
- Actively organized and managed the national-level competition, including IUPC (Inter-University Programming Contest), Robotics Competition, and Poster Presentation event, attracting participation from over 20 institutions.

Planning Lead, RUET Unit Face at ESAB
- Served as the Planning Lead for RUET unit, representing the Face of Engineering Students Association of Bangladesh.

Awards

Certificate of Outstanding Leadership | *Issued By Department of CSE, RUET*   2018-2022
- Received acknowledgement of leadership capabilities for exemplary performance as a Class Representative.

Dhaka Board Scholarship Excellency for HSC   2017
- Awarded scholarship in the General category by the Board of Intermediate and Secondary Education, Dhaka, in recognition of academic achievements.

Dhaka Board Scholarship Excellency for SSC, JSC & PSC   2015, 2012, 2009
- Received scholarships in the Talent Pool category under the Board of Intermediate and Secondary Education, Dhaka, recognizing academic excellence.

Skillset

Data Science, Machine Learning & Deep Learning: Data Analysis, Visualization, ANN, CNN, Supervised Learning Algorithms, Feature Engineering, Feature Selection & Extraction, Classification.

Web Application Development: REST API, Web Scraping

Frameworks & Library: OpenCV, NumPy, Pandas, Matplotlib, Scikit-Learn, Beautiful Soup.

Programming Languages: Python, C/C++, SQL, HTML/CSS, JavaScript.

Developer Tools: Git, LaTex, MATLAB, Jupyter Notebook, Microsoft Office.

Interpersonal Skills: Leadership, Management, Collaboration, Communication, Multitasking, Adaptability.

Extra-Curricular Activities

Notre Dame Science Club   2015-2017
- Actively participated as a member of the Notre Dame Science Club, engaging in various science-related activities and events.

Sustainable Science Education using STEM Practice   2016
- Participated in Biology Day, a prestigious event sponsored by the US Department of State, showcasing my project

References

1. S. M. Mahedy Hasan
- Assistant Professor,
  Department of Computer Science & Engineering,
  Rajshahi University of Engineering & Technology, Bangladesh,
  Mail: mahedy@cse.ruet.ac.bd
- **Thesis Supervisor**

2. Md. Azmain Yakin Srizon
- Assistant Professor,
  Department of Computer Science & Engineering,
  Rajshahi University of Engineering & Technology, Bangladesh,
  Mail: azmainsrizon@cse.ruet.ac.bd