

Rafiul Hoque

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About me

Developing intelligent systems that transform data into actionable insights while working closely with teams to build reliable, efficient models. Experienced in machine learning research, exploring innovative algorithms and techniques to push the boundaries of the field. Driven to create solutions that make technology smarter, more effective, and impactful for users.

Education

Master of Science in Information Technology (By Research), Universiti Tenaga Nasional (UNITEN), Malaysia Ongoing

- **Program Type:** Research-based
- **Field:** Information Technology

B.Sc. in Computer Science and Engineering, Green University of Bangladesh Feb 2020 – Jun 2024

- **CGPA:** 3.20/4.00
- **Major:** Machine Learning
- **Thesis:** "Transformer-Based Sentiment Analysis for Classification of Non-Depressive and Suicidal Thought in Bangla Text."

Higher Secondary Certificate, Government Science College, Dhaka, Bangladesh 2017-2019

- **Final Grade:** 4.50/5.00
- **Field of Study:** Science

Secondary School Certificate, Liaquat Ali Smriti School and College, Dhaka, Bangladesh 2015-2017

- **Final Grade:** 5.00/5.00
- **Field of Study:** Science

Skills

- **Programming Languages:** Java (OOP) , Python
- **Web Development:** HTML, CSS, React, Tailwind CSS, Firebase, Git
- **Software Testing tools:** JMeter , Postman , Manual Testing , SDLC
- **Data Analysis Tools:** IBM SPSS, Power BI, SQL

Experience

Frontend Developer (Intern) Oct 2023 – Feb 2024
MMIT Soft Ltd. – Dhaka, Bangladesh

- Designed and developed dynamic, high-performance web interfaces that enhanced user experience and engagement through innovative use of HTML, CSS, JavaScript and React.

Publications

- 1. Depressive and Suicidal Text-Based Sentiment Analysis in Bangla Using Deep Learning Models** 2024
Business & IT
Rafiul Hoque, Md. Samiul Islam, Sagor Sarkar, Sultana Umme Habiba, Md. Moshir Rahman, Md. Rajibul Palas, Muhammad Hoque
10.14311/bit.2024.02.13
- 2. Transformer-Based Sentiment Analysis for Classification of Non-depressive and Suicidal Thought in Bangla Text** 2025
International Journal of Research in Business and Social Science
<https://doi.org/10.20525/ijrbs.v14i5.4274>
Md. Samiul Islam, Rafiul Hoque, Md. Samiul Islam, Sagor Sarkar, Md. Moshir Rahman, Md. Rajibul Palas, Muhammad Hoque
- 3. Modelling Hypertension among Adults in South Africa through SMOTE-Based Balanced Data with Machine Learning Approaches** 2025 (Accepted)
Annals of Medicine and Medical Sciences
Prof. Muhammad Hoque, Rafiul Hoque
- 4. Machine Learning Approaches to Modelling Marriage Duration in South Africa** 2025 (Submitted)
International Journal of Research in Business and Social Science
Prof. Muhammad Hoque, Rafiul Hoque
- 5. Prevalence and Risk Factors for Postpartum Depression in eThekweni District of KwaZulu-Natal Province of South Africa** 2025
European Journal of Medical and Health Sciences
Akm Monjurul Hoque, Maariyah Hoque, Rafiul Hoque, Somaya Buckus
10.24018/ejmed.2025.7.1.2248
- 6. Trends and Factors for Adverse Pregnancy Outcomes of Low-Risk Pregnancy from a Midwife Obstetric Unit in South Africa, 2018–2022** 2025
European Journal of Clinical Medicine
<http://dx.doi.org/10.24018/ejmed.2025.7.2.2263>
Akm Monjurul Hoque, Maariyah Hoque, Rafiul Hoque, Somaya Buckus
- 7. Trends and Risk Factors for Low-Birth-Weight and Preterm Deliveries Between 2018–2022 in a PHC Setting of South Africa** 2025
European Journal of Clinical Medicine
Akm Monjurul Hoque, Maariyah Hoque, Rafiul Hoque, Somaya Buckus
DOI: 10.24018/clinicmed.2025.6.1.371

Projects

- Heart Disease Prediction & Diabetes Prediction** 2023
- Developed an AI tool to predict heart disease risks by analyzing medical data such as blood pressure and cholesterol levels.
 - Technologies: Python, TensorFlow, Machine Learning.
- Fake News Detection** 2023

- Created a machine learning application to identify fake news by analyzing textual content and source credibility.
- Technologies: Python, Machine Learning, Natural Language Processing.

Honours & Awards

Creative Talent Search Award	2014
<ul style="list-style-type: none"> • Awarded 'Best Talent of the Year' for excellence in Mathematics and Computer Science. • Organized by Upazila Creative Talent Hunt Committee. 	

Extracurricular Activities

Bangladesh Junior Science Olympiad (BDJSO) 2025	2025
<ul style="list-style-type: none"> • Served as a volunteer at Bangladesh Junior Science Olympiad (BDJSO) 2025. • Organized by Bangladesh Open Source Network (BdOSN). 	
Bangladesh Artificial Intelligence Olympiad 2025	2025
<ul style="list-style-type: none"> • Served as a judge and volunteer at the Artificial Intelligence Olympiad 2025. • Organized by Bangladesh Open Source Network (BdOSN). 	
Photography Competition Finalist	2018
<ul style="list-style-type: none"> • Finalist in the 1st National Photography Festival. • Held at Government Science College. 	
3rd Upzila and District Scout Gathering	2016
<ul style="list-style-type: none"> • Engaged in activities focused on leadership, teamwork, and community service. • Held in Rajbari. 	
4th National Power & Energy Camp	2015
<ul style="list-style-type: none"> • Attended workshops on renewable energy, power generation, and sustainability. • Participated in the national-level energy camp. 	

References

Professor and Dean	Assistant Professor
Prof. Dr. Md. Saiful Azad	Mohammed Ehsan Shahmi Chowdhury
<i>Department of Computer Science and Engineering</i>	<i>Department of Computer Science and Engineering</i>
Green University of Bangladesh	Green University of Bangladesh
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