

# 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

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- 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. Moshiur 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. Moshiur 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

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- 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

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### Creative Talent Search Award

2014

- Awarded 'Best Talent of the Year' for excellence in Mathematics and Computer Science.
- Organized by Upazila Creative Talent Hunt Committee.

## Extracurricular Activities

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### Bangladesh Junior Science Olympiad (BDJSO) 2025

2025

- Served as a volunteer at Bangladesh Junior Science Olympiad (BDJSO) 2025.
- Organized by Bangladesh Open Source Network (BdOSN).

### Bangladesh Artificial Intelligence Olympiad 2025

2025

- Served as a judge and volunteer at the Artificial Intelligence Olympiad 2025.
- Organized by Bangladesh Open Source Network (BdOSN).

### Photography Competition Finalist

2018

- Finalist in the 1st National Photography Festival.
- Held at Government Science College.

### 3rd Upzila and District Scout Gathering

2016

- Engaged in activities focused on leadership, teamwork, and community service.
- Held in Rajbari.

### 4th National Power & Energy Camp

2015

- Attended workshops on renewable energy, power generation, and sustainability.
- Participated in the national-level energy camp.

## References

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### Professor and Dean

#### Prof. Dr. Md. Saiful Azad

*Department of Computer Science and Engineering*

**Green University of Bangladesh**

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### Assistant Professor

#### Mohammed Ehsan Shahmi Chowdhury

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