## **Md Rifatul Islam**

**Address:** 14 Sharani, Adarsha Nagar, Middle Badda, Dhaka-1212, Bangladesh **E-mail:** <u>i.mdrifatul16@gmail.com</u> | **Phone:** +8801521429728 | **Portfolio:** <u>rifat004.github.io</u>

LinkedIn: linkedin.com/in/mdrifatul/ | GitHub: github.com/Rifat004

## **ACADEMIC CREDENTIALS**

February 2017 – July 2022

**Bachelor of Science in Mechatronics and Industrial Engineering** 

Chittagong University of Engineering & Technology (CUET)

**CGPA:** 3.65 on a scale of 4.00 (3.83 in last four terms)

Class Position: 6th

Undergraduate Thesis: A Comparative Approach to Alleviating the Prevalence of

Diabetes Mellitus Using Machine Learning

Analyzed the risk factors of diabetes in Bangladesh

• Developed and compared 14 machine learning models to predict the disease in the early stage

#### RESEARCH & PUBLICATIONS

- Md. Rifatul Islam, Semonti Banik, Kazi Naimur Rahman, and Mohammad Mizanur Rahman, A comparative approach to alleviating the prevalence of diabetes mellitus using machine learning, Computer Methods and Programs in Biomedicine Update (2023), doi: <a href="https://doi.org/10.1016/j.cmpbup.2023.100113">https://doi.org/10.1016/j.cmpbup.2023.100113</a>.
- Kazi Naimur Rahman, Monowar Wadud Hridoy, Mohammad Mizanur Rahman, **Md. Rifatul Islam**, and Semonti Banik, "Highly Secured and Effective Management of App-Based Online Voting System Using RSA Encryption and Decryption" (Under Review).

## **WORK EXPERIENCE**

November 01, 2023 – Present

## **Machine Learning Engineer**

Polyfins Technology Inc., Fremont, California, United States

Working remotely and focusing on AI solutions in healthcare industry

patterns and performed rigorous data quality assessment tasks

#### **TUTORING EXPERIENCE**

- Taught mathematics and physics to 12<sup>th</sup> grade students and mentored some engineering university admission test candidates
- Graded and evaluated answer scripts in a tutoring center

## INTERNSHIP & INDUSTRIAL ATTACHMENT

July 16, 2023 – October 16, 2023	<ul> <li>Machine Learning Engineer (Remote - Intern)</li> <li>Polyfins Technology Inc., Fremont, California, United States</li> <li>Worked on various tasks including time series analysis, clustering, image classification, feature extraction, and semantic segmentation</li> </ul>
May 10, 2022 – May 23, 2022	<ul> <li>Industrial Attachment Trainee</li> <li>Unipolar Automation Technologies, Dhaka, Bangladesh</li> <li>Learned about basic troubleshooting and controlling an automated industry using PLC, HMI, and CCW Software</li> </ul>
October 2020 – November 2020	<ul> <li>Intern</li> <li>Pantech Prolabs India Pvt, Ltd., Chennai, India</li> <li>Familiarized with several deep learning projects</li> </ul>
May 2020 – June 2020	Data Analytics Virtual Intern InsideSherpa  Learned about comprehensive exploratory data analysis to uncover data

## **TECHNICAL SKILLS**

Programming Language: Python | JavaScript | C | MATLAB

Libraries/Frameworks: Scikit-learn | Pandas | OpenCV | Keras | TensorFlow | PyTorch | Robot Operating System

Cloud Computing Service: Google Cloud Platform Version Control: Git

## **PROJECTS**

• Voice controlled robotic vehicle

- Automatic water valve control
- Gastrointestinal disease classification and semantic segmentation
- Handwriting optical character recognition
- American sign language detection using convolutional neural network

## TRAINING & ONLINE COURSE CERTIFICATIONS

- Completed a 32-hour training on 'Foundations in Digital Forensics with Magnet Axiom Forensic Tool' in association with Bangladesh Hi-Tech Park Authority, Contessa Solutions & Consultants Limited in 2019
- Completed a four-month course on 'Internet of Things' from Oct 2019 to Feb 2020, arranged by Planeter Ltd.
- DeepLearning.AI TensorFlow Developer Specialization Coursera
- Applied Machine Learning in Python Coursera
- Machine Learning Coursera

## STANDARDIZED TEST SCORE

• **IELTS:** Overall: 7 | Listening: 7.5 | Reading: 6.5 | Writing: 6.5 | Speaking: 6.5

#### LANGUAGE PROFICIENCY

• Bengali (Native Language)

• English

#### **EXTRACURRICULAR ACTIVITIES**

• Lab Director | Robo Mechatronics Association, CUET

(2021-2022)

- Helped the association in arranging various workshops, seminars, and competitions during the event 'Tech Day 2021' in CUET
- Treasurer | IEOM CUET Student Chapter

(2021-2022)

- Assisted the team in organizing Inter-University Scientific Poster Presentation Competition
- Awarded with "IEOM Outstanding Student Chapter Award-GOLD" during our tenure
- Campus Research Ambassador | Be Researcher BD

(2021-2022)

- Promoted research activity and developed collaboration between the researchers and enthusiasts
- Member | LIGHT, a non-profit organization

(2013-2014)

Collected funds and ensured education of some underprivileged children

#### **AWARDS & HONORS**

• Technical Scholarship

(2017-2022)

Awarded based on merits by Chittagong University of Engineering & Technology

• Runner-up | Formula 1 RC Race Competition

(2018)

Organized by Andromeda Space & Robotics Research Organization in CUET

• 12th | Standard Chartered International School Chess Tournament

(2010)

# **REFERENCES**

Dr. Mohammad Mizanur Rahman

Sanjeeb Roy

**Professor** 

Assistant Professor

Dept. of Mechanical Engineering,

Dept. of Mechatronics & Industrial Engineering,

**CUET** 

CUET

Email: mmrahman\_me@cuet.ac.bd

Email: sanjeeb@cuet.ac.bd