# **Md Rifatul Islam**

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### **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: 6<sup>th</sup>

**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: https://doi.org/10.1016/j.cmpbup.2023.100113.

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, Heliyon (2024), doi: https://doi.org/10.1016/j.heliyon.2024.e25373.

#### 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

# **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	Machine Learning Engineer (Remote - Intern)  Polyfins Technology Inc., Fremont, California, United States  Worked on various tasks including time series analysis, clustering, image classification, feature extraction, and semantic segmentation
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 deep learning frameworks, libraries and worked on several projects</li> </ul>
May 2020 – June 2020	Data Analytics Virtual Intern

InsideSherpa

Learned about comprehensive exploratory data analysis to uncover data patterns and performed rigorous data quality assessment tasks

## **TECHNICAL SKILLS**

**Programming Languages:** Python | MATLAB | C | SQL | JavaScript **Version Control:** Git **Libraries/Frameworks:** Scikit-learn | Pandas | OpenCV | Lightly SSL | Keras | TensorFlow | PyTorch | ROS

Development Tools: Google Colab | VS Code | Google Cloud PlatformDocumentation: LaTeX, MS OfficeWeb/APIs Development: HTML | CSS | React | FastAPIDesign: AutoCAD | SolidWorks

Miscellaneous: Arduino | Proteus | Tableau | Figma | Factory I/O

# **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 hands-on course on Internet of Things from October 2019 to February 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

Sanjeeb Roy

## **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

Professor Assistant Professor

Dept. of Mechanical Engineering,

Dept. of Mechatronics & Industrial Engineering,

CUET CUET

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