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: 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: 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" (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

TUTORING EXPERIENCE

- Taught mathematics and physics to 12th 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	**Industrial Attachment Trainee** Unipolar Automation Technologies, Dhaka, Bangladesh ▪ Learned about basic troubleshooting and controlling an automated industry using PLC, HMI, and CCW Software
October 2020 – November 2020	**Intern** Pantech Prolabs India Pvt, Ltd., Chennai, India ▪ Familiarized with several deep learning projects
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 Language: Python | JavaScript | C | MATLAB
Library/Framework: Scikit-learn | Pandas | NumPy | OpenCV | Keras | TensorFlow | PyTorch
Web Development (Frontend): React | CSS | Bootstrap   **Documentation**: LaTeX, MS Office
Design: AutoCAD | SolidWorks   **UI/UX:** Figma   **Miscellaneous:** Arduino | Proteus | Tableau

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 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

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 | L I G H T, 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
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Sanjeeb Roy
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