

Md Shamiul Islam

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[in md-shamiul-islam](#) [Github](#) [Google Scholar](#) [Twitter](#)



CAREER OBJECTIVE

Dedicated and detail-oriented Computer Science graduate with substantial research and hands-on experience in AI, Machine Learning, and Data Analysis. Proven record of developing intelligent systems, contributing to peer-reviewed publications, and working in cross-functional teams on real-time projects. Committed to utilizing analytical thinking, and innovation to drive impactful solutions across academia, industry, and social development initiatives.

AREA OF EXPERTISE

- Artificial Intelligence (AI)
- Machine Learning (ML)
- Deep Learning (DL)
- Predictive Modeling
- Data Analysis & Visualization
- Web Technologies (HTML, CSS)
- Programming Languages (Python, C, C++)
- Neural Network Architectures (CNN, LSTM)
- Technology and Digital Literacy Advocacy
- Strategic Digital Campaign Planning
- Collaborative Innovation in ICT
- Digital Risk Communication
- Educational Technology Promotion
- Database Management (MySQL)
- ERP Systems (Odoo)
- Software Quality Testing
- Research & Technical Writing
- Transfer Learning & Image Augmentation
- Cybersecurity Awareness & Engagement
- Project Documentation & Reporting
- Version Control & Collaboration Tools (GitHub, Trello)

EXPERIENCE

Virtual Research Assistant (Remote)

May 2024 – July 2024

The Center for AI and Digital Health Technology Lab, The University of Queensland (UQ), Australia

- Collaborated on cutting-edge research in AI for healthcare, including data preprocessing and large-scale predictive modeling.
- Designed and executed experiments using machine learning and deep learning algorithms.
- Contributed to scientific publications by assisting with technical writing and model evaluation.
- Applied neural network architectures to real-world health datasets, boosting model accuracy by optimizing preprocessing pipelines.

Intern – Artificial Intelligence & Machine Learning Program

Aug 2023 – Nov 2023

Enhancing Digital Government and Economy (EDGE), IIT, University of Dhaka

- Participated in hands-on AI/ML training covering supervised and unsupervised learning algorithms.
- Worked on real-time projects involving data annotation, model training, and evaluation.
- Assisted mentors in research discussions and weekly code reviews.
- Demonstrated practical skills in Python, Scikit-learn, and TensorFlow for mini-project implementations.

Intern – Network & Software Quality Testing

March 2023 – April 2023

Bangladesh Computer Council (BCC)

- Gained practical experience at the National Data Center, Network Operation Center (NOC), and Software Quality Testing Center (SQTC).
- Supported testing of enterprise applications to ensure software reliability and security.
- Assisted with documentation, report generation, and logging defects in test environments.

ACADEMIC QUALIFICATIONS

2023	B.Sc. in Computer Science & Engineering Bangladesh University of Business and Technology (BUBT) CGPA: 3.56/4.00
2018	Higher Secondary Certificate (HSC) in Science Palashbari Adarsha Degree College, Gaibandha GPA: 3.50/5.00
2016	Secondary School Certificate (SSC) in Science Madarhat Adarsha High School, Gaibandha GPA: 4.67/5.00

PROJECTS

Credit Risk Assessment and Loan Approval Automation [🌐]

2025

- Designed an AI-based system to evaluate loan applications and predict default probability using historical data.
- Employed supervised machine learning techniques such as Decision Trees, Random Forest, and Logistic Regression for classification.
- Improved fraud detection accuracy and accelerated loan approval process through automation.
- Tools/Technologies: Python, Scikit-learn, Pandas, Power BI.

User Behavior Analysis for Optimizing Engagement on Social Media Platforms [🌐]

2025

- Analyzed user interaction data from various social media platforms to detect behavior patterns and engagement triggers.
- Built predictive models to forecast content performance and guide personalized content strategies.
- Provided actionable insights for marketers and product teams to increase user retention.
- Tools/Technologies: Python, TensorFlow, Keras, Matplotlib, Google Colab.

Predicting women with depressive symptoms postpartum with machine learning methods [🌐]

2023

- Developed machine learning models to assess postpartum depression risk using medical and psychological data.
- Identified critical features influencing maternal mental health using feature selection and model interpretation techniques.
- Helped demonstrate the viability of ML in public health screening and early intervention.
- Tools/Technologies: Python, Scikit-learn, XGBoost, Jupyter Notebook.

PUBLICATIONS

C=CONFERENCE, J=JOURNAL

- [J] Md Shamiul Islam, et al. (2024). **AutoML: A systematic review on automated machine learning with neural architecture search**. In *Journal of Information and Intelligence*, Publisher: Elsevier.
- [J] Md Shamiul Islam, et al. (2023). **Real-Time Medical Image Classification with ML Framework and Dedicated CNN-LSTM Architecture**. In *Journal of Sensors*, Publisher: Hindawi.
- [J] Md Shamiul Islam, et al. (2024). **Deep Learning Models for Real-Time Identification of Agro Plant Insects with Image Augmentation Effect Analysis on a Small Custom Dataset**. In *Available at SSRN 4619643*.
- [C] Md Shamiul Islam, et al. (2024). **Enhancing the Accuracy of Fruit Freshness Detection by Utilizing Transfer Learning and Customizing Convolutional Neural Network (CNN)**. In *2024 IEEE 3rd International Conference on Computing and Machine Intelligence (ICMI)*, Publisher: IEEE.
- [C] Md Shamiul Islam, et al. (2023). **Prediction of buying intention: factors affecting online shopping**. In *2023 International Conference on Next-Generation Computing, IoT and Machine Learning (NCIM)*, Publisher: IEEE.
- [C] Md Shamiul Islam, et al. (2023). **Improving Network Security with Intrusion Detection Systems Utilizing Machine Learning and Deep Learning Techniques**. In *2023 26th International Conference on Computer and Information Technology (ICCIT)*, Publisher: IEEE.
- [C] Md Shamiul Islam, et al. (2024). **IoT-Based Smart Remote Door Lock and Monitoring System Using an Android Application**. In *Engineering Proceedings*, Publisher: MDPI.
- [C] Md Shamiul Islam, et al. (2022). **Improve CNN Model Agro-Crop Leaf Disease Identification Based on Transfer Learning**. In *International Conference on Advanced Communication and Intelligent Systems*, Publisher: Springer Nature Switzerland.

HONORS AND AWARDS

- Awarded five lac BDT at “project an innovative idea competition of Renewable energy” from Mr. Nasrul Hamid, State Minister for Power, Energy and Mineral Resources on December 10, 2019 organized by **Young Bangla-Bicchuron**. [🌐]
- Awarded for Researcher 2023, Department of Computer Science and Engineering, Bangladesh University of Business & Technology.
- Awarded for "National Cyber Drill 2021-22" by BGD e-GOV CIRT.
- Awarded for "Brain Station 23 Hackathon" by Orbitx SUST SWT Techno vent.
- Awarded for "Intra University Programming Contest" on BUBT.
- Awarded the top position in Composition Writing at the Upazila level "National Education Week" on 2018. [🌐]

LEADERSHIP EXPERIENCE

Founder and President

Greenlife Educational and Social Development Organisation (GESDO) [🌐]

April 2021 –Present

- Established and currently lead a non-political, non-profit voluntary organization focused on promoting quality education and social development initiatives across Bangladesh.
- Mobilized and coordinated a team of passionate youth volunteers to organize community outreach programs, awareness campaigns, and academic support events.
- Oversaw strategic planning, partnership development, and organizational sustainability.

VOLUNTEER EXPERIENCE

Champion Member

Crime Awareness Foundation [🌐]

2021 - Present

- Actively participate in nationwide programs aimed at raising awareness on crime prevention and cybersecurity best practices.
- Contributed to campaigns, workshops, and training sessions to improve cyber resilience among communities and institutions.
- Collaborated with cross-sector stakeholders to promote responsible digital citizenship.

University Ambassador

ICT Olympiad Bangladesh [🌐]

2023

- Represented the ICT Olympiad at the university level, encouraging student participation in national-level tech competitions.
- Promoted the initiative's vision of "Empowering the Future with Technology" by engaging peers through seminars, social media, and campus events.
- Supported the execution of regional contests and helped identify promising tech talent.

PROFESSIONAL MEMBERSHIP

Blue Team Bangladesh Ltd Membership: District Ambassador

2022 - Present

COURSES & CERTIFICATIONS

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| International Conference on Next-Generation Computing, IoT and Machine Learning | 2023 |
| Machine Learning Basic to Advanced. [Udemy] | 2023 |
| Machine Learning & Artificial Intelligence with Python. [Udemy] | 2023 |
| Artificial Intelligence and the future Work. [Udemy] | 2023 |
| Statistical Thinking and Data Science with R. [Udemy] | 2023 |
| Qualitative Research Skills for Industry Professionals. [Udemy] | 2023 |
| Cyber Security & Ethical Hacking. [Team Matrix] | 2022 |
| International Conference on Advanced Communication and Intelligent Systems | 2022 |
| ROBO MANIA project an innovative idea competition on Intra University Robotics competition | 2021 |
| Bangladesh Enterprise Institute (BEI) | 2018 |

LANGUAGES

Bengali (Native Proficiency)

English (Professional Proficiency)

PERSONAL INFORMATION

DOB: January 01, 2000 | **Religion:** Islam | **Blood Group:** O+ | **Nationality:** Bangladeshi

REFERENCE

A.B.M. Mesbahul Hasan

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Bangladesh University of Business and Technology (BUBT)

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