Md Shamiul Islam

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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

- 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

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