Nazihah Islam

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GitHub | **LinkedIn** | **Portfolio**

EDUCATION

Bachelor of Science in Computer Science **Oct 2021 - May 2025**

BRAC University *CGPA: 3.90/4.00*

Thesis: A Robust Ensemble Learning Framework for Binary and Multiclass Malware Classification Over Diverse Datasets

PUBLICATIONS

1. Azwad Aziz, Nazihah Islam, Dr. Amitabha Chakrabarty, "A Comparative Study on Delay Prediction in Tactile Internet with Machine Learning," *6th IEEE International Conference on Telecommunications and Photonics (ICTP 2025)* [Accepted].
2. Nazihah Islam, Azwad Aziz, "Exploring Fusion Strategies for Multi-Modal Pneumonia Classification with Modality-Specific Explainability," *5th International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE 2026)* [Accepted].
3. Nazihah Islam, Azwad Aziz, "A Comparative Study on IoT Device Identification and Anomaly Detection," *5th International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE 2026)* [Accepted].

EXPERIENCE

Bnext Intern **May 2025 – August 2025**

IT Governance Department, bKash Limited

- Created comprehensive AI policy frameworks
- Developed strategic API management plans
- Enhanced organizational tech governance

Teaching Assistant **May 2024 – May 2025**

Department of Mathematics and Natural Sciences, BRAC University

- Provided consultation sessions to students.
- Graded assignments and evaluated student progress.

PROJECTS

Skin Lesion Classification: Built a convolutional neural network using TensorFlow and Keras to classify skin lesion images, applying image preprocessing, data augmentation, and regularization techniques.

Coronary Heart Disease Prediction: Built a machine learning pipeline to predict 10-year coronary heart disease risk using the Framingham dataset, including data preprocessing, class imbalance handling with SMOTE, KNN model training with hyperparameter tuning, and performance evaluation. *(Live Demo)*

TECHNICAL SKILLS

Languages & Frameworks: Python, C, Flask, FastAPI, Jinja2, HTML5, CSS, SQL

ML & DL Libraries: TensorFlow, Keras, PyTorch, Pandas, Matplotlib, NumPy, Scikit-learn, Seaborn, OpenCV, CNN, YOLO, Segmentation models

Version Control: Git, GitHub

Containerization: Docker

Cloud Platforms: AWS

CERTIFICATIONS

Image Processing in Python: DataCamp

Introduction to Deep Learning with Keras: DataCamp

Machine Learning Specialization: Coursera