

MD NAZMUSSAKIB

nshakib2017@gmail.com | (240) 838-0397 | [linkedin.com/in/nazmussakibai](https://www.linkedin.com/in/nazmussakibai)
github.com/Nazmussakib67 | ORCID: 0009-0004-5980-9653

RESEARCH PROFILE

Doctoral student in Computer Science with an M.S. in Information Technology and a background in data analysis. Research interests center on artificial intelligence for healthcare, deep learning, computer vision, medical image classification, explainable AI, and robust, generalizable machine learning.

EDUCATION

University of the Potomac — Doctorate in Computer Science | Washington, DC | Oct 2025–Present

Washington University of Science and Technology — M.S., Information Technology | Alexandria, VA | Oct 2022–Sep 2024

Concentration: Software Design and Management

Bangladesh University of Professionals — B.S.S., Public Administration | Dhaka, Bangladesh | Jan 2017–Feb 2021

RESEARCH INTERESTS

AI-assisted cancer detection and classification; medical imaging and computational pathology; deep learning and computer vision; multi-scale representation learning; attention-based feature fusion; explainable AI; model robustness, validation, and generalization.

PROPOSED RESEARCH FOCUS

AI-Assisted Cancer Detection and Medical Image Classification — proposed research

- Interested in investigating deep-learning and hybrid model architectures for detecting and classifying cancer across medical imaging modalities, including histopathology and radiological images. Potential research questions include combining local and global image features, improving generalization across heterogeneous datasets, and increasing model interpretability.
- Research agenda under development; no experimental results claimed.

JOURNAL PUBLICATIONS

- Faruk, M. I., et al. (including Md Nazmussakib). "Channel attention recalibrated fusion of CoAtNet and frozen DINOv2 features for binary chest X ray classification." *Discover Computing*, 29, 551. <https://doi.org/10.1007/s10791-026-10446-w>
- Meruga, V. B., et al. (including Md Nazmussakib). "Edge-Cloud Digital Service Loop Framework for Real-Time Cardiac Patient Monitoring and Predictive Intervention in IoT-Enabled Healthcare Systems." *IEEE Internet of Things Magazine*, accepted article. <https://doi.org/10.1109/MIOT.2026.3734594>
- Bakhsh, M. M., et al. (including Md Nazmussakib). "CAUSAL artificial intelligence and data-driven decision intelligence in personalized medicine: a review of healthcare informatics systems." *Personalized Medicine*, 23(4), 383–410. <https://doi.org/10.1080/17410541.2026.2715349>
- Adnan, M., et al. (including Md Nazmussakib). "Interpretable Data Analytics for One-Year Diabetes Progression: Comparative Prediction, Feature Reliance, and Ranking Stability." *European Journal of Medical and Health Research*, 2(6), 257–269. [https://doi.org/10.59324/ejmhr.2024.2\(6\).34](https://doi.org/10.59324/ejmhr.2024.2(6).34)
- "AI-Powered Business Intelligence: Enhancing Decision-Making through Predictive Analytics and Big Data." *Posthumanism*, 6(3), 218–237, 2026. DOI: 10.63332/joph.v6i3.4083.

CONFERENCE PAPERS

- Das, N., et al. (including Md Nazmussakib). “Four Class Brain Tumor Classification in MRI Using Multi Scale Attention Guided Feature Fusion Network.” IEEE Technology and Innovation Conference. <https://doi.org/10.1109/TIC68483.2026.11702971>
- Nazmussakib, M., et al. “Adversarial Machine Learning for Robust Cyber Defense Systems.” IEEE ICCTWC. <https://doi.org/10.1109/ICCTWC68241.2026.11583629>
- Rozario, E., et al. (including Md Nazmussakib). “Dynamic Big Data Summarisation Using Transformer-Based Generative Models.” IEEE I3CTCON. <https://doi.org/10.1109/I3CTCON68242.2026.11507387>
- “Decision Robustness under Information Noise: A Machine Learning Perspective on Managerial Decision Systems.” IEEE CICN, 2026. DOI: 10.1109/CICN70047.2026.11594307.
- “Data-Driven Operations and Supply Chain Management Using Large Language Models.” IEEE CICN, 2026. DOI: 10.1109/CICN70047.2026.11594225.

PROFESSIONAL EXPERIENCE

Global Systems LLC — Business Data Analyst Trainee | Texas, USA | Dec 2024–Aug 2025

- Supported dashboard reporting and KPI analysis, market research, competitor analysis, and data quality validation.

Beatnik Technology Ltd. — Data Analyst | Dhaka, Bangladesh | Mar–Dec 2021

- Cleaned and analyzed datasets using SQL, Python/R, and spreadsheets; developed Tableau and Power BI reports for business stakeholders.

SELECTED APPLIED PROJECTS

Medical Image Classification Research Prototype | CNN, PCA, Quantum ML — Implemented an experimental pipeline for cancer histopathology image classification with ResNet50 feature extraction, PCA and classical/variational quantum classifiers. Code is available; training and validation are pending.

<https://github.com/Nazmussakib67/colorectal-cancer-hybrid-deep-learning>

Chicken Disease Image Classification | Python, ML pipeline — Structured an image-classification project with configurable training components, experiment workflow and DVC pipeline configuration.

<https://github.com/Nazmussakib67/Chicken-Disease-Classification-Project>

Data Analytics Portfolio | Python, SQL, Jupyter — Developed exploratory analysis and predictive-modeling notebooks for restaurant data and Black Friday purchasing, alongside SQL-based pizza sales analysis.

<https://github.com/Nazmussakib67/Data-Analytics-Portfolio>

End-to-End Machine Learning Pipeline | Python, Jupyter — Organized a machine-learning project with notebooks, source modules, requirements and artifacts for reproducible experimentation.

<https://github.com/Nazmussakib67/mlproject>

TECHNICAL SKILLS

Programming & scientific computing: Python, R, SQL, NumPy, Pandas, Matplotlib. Data preparation & evaluation: data cleaning, exploratory data analysis, feature engineering, statistical analysis, model evaluation and visualization. Machine learning foundations: supervised learning, classification, regression, and neural-network fundamentals. Research methods and interests: computer vision, CNNs, attention mechanisms, medical image analysis, explainability and robustness (areas of active study). Tools: Jupyter Notebook, Kaggle, GitHub, Power BI, Tableau, Excel.

CERTIFICATIONS

Google Data Analytics Professional Certificate; Tableau 2024 A–Z (Udemy); Power BI Business Intelligence (Udemy); Google Analytics.