

MD NAZRUL ISLAM

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[Google Scholar](#) | [ResearchGate](#) | [Website](#)

Research Interests:

- Vision Language, Robotics, NLP, LLMs, Security of LLMs.

Education:

Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh January 2018 - February 2023

- B. Sc. in Computer Science & Engineering
- CGPA: 3.68 out of 4.00 (Ranked in the top **20%** in the Department of Computer Science and Engineering (CSE) at KUET.)

Professional Experience:

Lecturer at CSE Department February 2024 - Onwards

- Southeast University, Dhaka, Bangladesh

Lecturer at CSE Department July 2023 - February 2024

- Uttara University, Dhaka, Bangladesh

Part-time Lecturer at CSE Department March 2023 - July 2023

- Central University of Science and Technology, Dhaka, Bangladesh

Standardized Test Scores:

IELTS Academic, Exam: 11 October 2024 – Overall Band Score: 7.5

- (Listening: 7.5, Reading: 8.0, Writing: 6.5, Speaking: 7)
- IELTS Reference number: A3-BD001-A-12054929, TRF number: 24BD507339ISLM001A

Publications:

Journals:

1. Ovishake Sen, Mohtasim Fuad, **Md Nazrul Islam**, Jakaria Rabbi, Mehedi Masud, Md Kamrul Hasan, Md Abdul Awal, Awal Ahmed Fime, Md Tahmid Hasan Fuad, Delowar Sikder, Md Akil Raihan Iftee. "[Bangla natural language processing: A comprehensive analysis of classical, machine learning, and deep learning-based methods.](#)" *IEEE Access* 10 (2022): 38999-39044.
2. Md Tahmid Hasan Fuad, Awal Ahmed Fime, Delowar Sikder, Md Akil Raihan Iftee, Jakaria Rabbi, Mabrook S Al-Rakhami, Abdu Gumaei, Ovishake Sen, Mohtasim Fuad, **Md Nazrul Islam**. "[Recent advances in deep learning techniques for face recognition.](#)" *IEEE Access* 9 (2021): 99112-99142.

Conferences:

1. Towsif Ahamed, **Md Nazrul Islam**, SM Taslim Uddin Raju, MMA Hashem. "[Blood Donor Arrival Forecasting Using Regression Model and Analysis of Donor Behavioural Pattern.](#)" In *2022 25th International Conference on Computer and Information Technology (ICCIT)*, pp. 897-902. IEEE, 2022.

Honors and Achievements:

- Ranked **10th** globally and **1st** among Bangladeshi teams in the *Indian Rover Design Challenge (IRDC) 2020* organized by *Mars Society South Asia (MSSA)* as a member of "**Team Durbar**" from **KUET**.
- Enlisted for the **Dean's Award** by the Faculty of Electrical and Electronic Engineering in the academic year **2018-2019** and **2019-2020** respectively from **KUET**.

Certifications:

1. "[Deep Learning Specialization](#)" from DeepLearning.AI, Coursera
2. "[DeepLearning.AI TensorFlow Developer Professional Certificate](#)" from DeepLearning.AI, Coursera
3. "[Machine Learning Specialization](#)" from Stanford University, Coursera

Projects:

- [BanglaBERT-Defense: Analyzing Adversarial Attacks in Low-Resource NLP](#) | Pytorch, Python
 - Investigated vulnerability of Bangla language models to adversarial attacks to improve NLP security for low-resource languages. Here, I set out to answer a simple question: How vulnerable are our best Bangla language models to adversarial attacks?
- [Simple Reinforcement Learning and Lightweight LLM for Text-to-SQL Generation](#) | Pytorch, Python
 - Developed a Tiny-BERT-based model with reinforcement learning to translate English text into SQL queries using the Spider dataset.
- [Simulation of Season Change using OpenGL](#) | OpenGL, C++
 - Created a 3D village scene demonstrating seasonal changes with textures, lighting, and shading effects.
- [ML Toolkit & Projects: Learning through Experimentation](#) | Python, TensorFlow, SciPy, Scikit-learn, NumPy, Pandas
 - Comprehensive repository implementing various ML algorithms including DBSCAN, K-Means, Decision Trees, and SVM for learning purposes.
- [Blood Transfusion System](#) | Java, OSM, Firebase, Android Studio
 - Android application developed using traditional software engineering methods for blood transfusion management.
- [Animal World](#) | Python, OpenCV, Matplotlib
 - Ecosystem simulation of three animal species developed for AI Laboratory coursework.
- [Cinema Hall Booking System](#) | HTML, CSS, ASP dot net
 - Web-based ticket booking and payment system for cinema halls built with ASP.NET.
- [Mini Compiler](#) | C, CPP, Flex, Bison
 - Compiler implementation supporting basic arithmetic, logical operations, loops (for/while), and function definitions.

Technical Skills:

- *Programming Languages:*
 - C++, Java, Python
- *Machine Learning Toolkit:*
 - TensorFlow, Pytorch, NumPy, SciPy, Scikit-learn, Pandas, OpenCV
- *Framework and Application Toolkits:*
 - Android Studio, Cisco Packet Tracer, Debian Based Linus Distros
- *Version Control and Documentation Preparation Tools:*
 - Git, Latex, Overleaf

Programming Activities:

- Codeforces
 - Handle: [nz_nAJn](#), 185+ problems solved

Leadership and Volunteer Experience:

- Vice President (March 2022-March 2023)
 - Hardware Acceleration Club of KUET (HACK), KUET
 - Managed club activities, organized events, and conducted workshops on commonly used microcontrollers
- Senior Programmer (September 2020-December 2022)
 - Software Sub-Team, KUET Mars Rover, Team Durbar, KUET
 - Contributed to the computer vision component, including the development of a lightweight Convolutional Neural Network (CNN) for object recognition.
- Junior Programmer (March 2019- September 2020)
 - Software Sub-Team, KUET Mars Rover, Team Durbar, KUET
 - Worked with Arduino and Raspberry Pi to implement key systems for the Mars Rover.

References:

Provide on request.
