

MD. NAIMUR ASIF BORNO

+8801860460298 naimur.ruet@gmail.com linkedin.com/in/naimurborno github.com/naimurborno

EDUCATION

Rajshahi University of Engineering and Technology
Bachelor of Science in Mechatronics Engineering
CGPA: 3.44/4.00
Last 4 semester avg. CGPA: 3.64/4.00

Feb 2019 - April 2024
Rajshahi, Bangladesh

RESEARCH INTERESTS

Diffusion Models, Image Editing & Inpainting with Illusions or Structure Guidance, Vision Transformers & Attention Mechanisms, Image-to-Image Translation, Medical Image Generation & Classification, Continual Learning & Knowledge Distillation,

RESEARCH EXPERIENCE

Research Assistant

Nov 2024 - Ongoing

Supervisor: Dr. Mohammad Ali Moni
Faculty of Health, Medicine and Behavioural Sciences
The University of Queensland
308 Queen St, Brisbane City, QLD 4000, Queensland, Australia

Research Topic: 1

- Developing a frequency-aware diffusion framework that fuses multi-image frequency components and injects prompt-based attention maps for controllable, structure-style-semantic disentangled image synthesis.
- Targeted Venue AAAI, 2025.

Research Topic: 2

- Latent-Based Continual Learning with Dual-Layered Distillation and a Streamlined U- Net for Efficient Text-to-Image Generation (Manuscript Under Review).

Research Topic: 3

- Decentralized LoRA Augmented Transformer with Context-aware Multi-scale Feature Learning for Secured Eye Diagnosis (Manuscript Under Review).

Research Assistant

Aug 2024 - Dec 2024

Advance Machine Intelligence Research Lab (<https://amirl.org/>)
Supervisor: Jungpil Shin, PhD
School of Computer Science and Engineering
University of Aizu

Research Topic:

- Percept-Diff: Innovations in Stable Diffusion for High-Fidelity IHC Image Generation in HER2 Breast Cancer Incorporating Perceptual Loss
- Published on 2024 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT)

PROFESSIONAL EXPERIENCE

The Sparks Foundation (Remote)

Jan 2023 – Mar 2023

Data Analyst And Business Analytics Intern

Singapore

Forbs Marshall

Jun 2022 – Aug 2022

Intern

Dhaka, Bangladesh

RESEARCH PUBLICATIONS

Borno, M.N.A., Shovon, M.S.H., Al-Moisheer, A.S. and Moni, M.A., 2025. Latent-Based Continual Learning with Dual-Layered Distillation and a Streamlined U- Net for Efficient Text-to-Image Generation. Under review at Future Generation Computer Systems

Borno, M.N.A., Shovon, M.S.H., Sikder, M.D., Rimi, I.F., Alahmadi, T.J. and Moni, M.A., 2025. Decentralized LoRA Augmented Transformer with Context-aware Multi-scale Feature Learning for Secured Eye Diagnosis. Under review at Knowledge-Based Systems

M. N. A. Borno, M. T. Raihan, A. Ahmed, M. S. H. Shovon, J. Shin and M. F. Mridha, "Percept-Diff: Innovations in Stable Diffusion for High-Fidelity IHC Image Generation in HER2 Breast Cancer Incorporating Perceptual Loss," 2024 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT), Sakhir, Bahrain, 2024, pp. 520-526, <https://doi.org/10.1109/3ict64318.2024.10824425>.

Borno, N., Mazumder, D., and Ghosh, A., 2023, December. The Categorization of Surface Irregularities Presents on the Hot-Rolled Steel Strip, Encompassing Six Distinct Types of Surface Anomalies, Achieved through the Implementation of Vision Transformer. In 6th Industrial Engineering and Operations Management Bangladesh Conference, <https://doi.org/10.46254/BA06.20230101>.

LANGUAGE PROFICIENCY

IELTS Academic: Overall Band Score 7	May
Listening: 7.5, Reading: 7, Writing: 6.5, Speaking: 6	2025

TECHNICAL COMPETENCIES

Programming Python, C++ , Java	Development, CNN, Generative ai, Object
ML Libraries Data analysis, Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn, Matlab etc.	Detection, Segmentation etc.
Cloud AWS, Azure, GCP, Mlflow, Fast Api, Streamlit etc.	Miscellaneous Git, Github, Latex, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Adobe Illustrator etc.
Vision Diffusers, Transformers, PIL, OpenCV, Model	

SPECIALIZED COURSES

Coursera Exploratory Data Analysis for Machine Learning (Certificate)	Coursera Neural Networks and Deep Learning(Certificate)
Coursera introduction to Tensorflow for Artificial Intelligence,Machine Learning and Deep Learning(Certificate)	Deep Learning.ai Convolutional Neural Networks in Tensorflow(Certificate)
Coursera Statistics for Data Science with Python (Certificate)	Deep Learning.ai Custom Models, Layers and Loss Functions with Tensorflow(Certificate)
	Coursera Generative Ai

AWARDS & HONORS

Face The Case 3.0	Top 10
IEEE CUET Student Branch	2023
Cognizent 2.0	Top 8
Ruet, IPE Club	2023
Internship Completion	2023
Forbs Marshall	
Data Science and Bussiness Analytics Internship Completion	2023
The Sparks Foundation	

ACTIVITIES & INTERESTS

Traveling, Movies, Singing, Photography, Books

REFERENCES

Dr. Mohammad Ali Moni School of Health and Rehabilitation Sciences Faculty of Health, Medicine and Behavioural Sciences The University of Queensland 308 Queen St, Brisbane City, QLD 4000, Queensland, Australia. Email: m.moni@uq.edu.au	Md. Faisal Rahman Badal Assistant Professor Department of Mechatronics Engineering Rajshahi University of Engineering & Technology (RUET) Rajshahi - 6204, Bangladesh Email: faisalrahman@mte.ruet.ac.bd
--	--