

Mominul Islam

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🎓 Google Scholar 🆔 ORCID 🐙 GitHub 🔗 LinkedIn

Education

BSc	North South University , Computer Science and Engineering	Jan. 2019 – Jun. 2023
	<ul style="list-style-type: none">• CGPA: 3.86/4.00 (\approxTop 4%)• Distinction: Summa Cum Laude• Major Courses:<ul style="list-style-type: none">– Machine Learning– Natural Language Processing– Pattern Recognition & Neural Network	

Experience

Intern		Mar. 2024 – Present
Business Systems Beximco Communications Limited		
Graduate Assistant		Jul. 2023 – Present
Department of Electrical and Computer Engineering North South University		7 months
Undergraduate Assistant		Feb. 2022 – Jun. 2023
Department of Electrical and Computer Engineering North South University		1 year 4 months

Publications

CosSIF: Cosine similarity-based image filtering to overcome low inter-class variation in synthetic medical image datasets, *Mominul Islam , Hasib Zunair, Nabeel Mohammed	Mar. 2024
<i>Computers in Biology and Medicine</i>	
Paper: doi.org/10.1016/j.combiomed.2024.108317 Code: GitHub IF: 7.7 (Q1)	

Projects

Fine-Tuned the Pre-Trained T5 Transformer Model for Context-to-Question Generation	Jan. 2024
<ul style="list-style-type: none">• Code: Kaggle• Model: Hugging Face• ML Domain: Text Generation, Sequence-to-Sequence Modeling	
Fine-Tuned the Pre-Trained mT5 Transformer Model for Abstractive Bengali Text Summarization	Jun. 2023
<ul style="list-style-type: none">• Code: GitHub• ML Domain: Text Summarization	
Image-to-Image Translation via GAN to Address Class Imbalance	Sep. 2022
<ul style="list-style-type: none">• Ref. Code: GitHub• ML Domain: Generative Adversarial Networks• GAN Architecture: Nvidia's StyleGAN2-ADA	

Skin Lesion Classification Using Cross-Stage CNNs and Transformers

Aug. 2022

- Ref. Code: [GitHub](#)
- ML Domain: Binary & Multi-Class Image Classification
- Models: ConvNeXt, Swin-Transformer, ViT

Heart Disease Detection Using Machine Learning

Jul. 2022

- Code: [GitHub](#)
- ML Domain: Binary Classification
- Algorithms: Logistic Regression, Random Forest, Decision Tree, KNN, Naive Bayes

Honors and Awards

2022, 50% tuition waiver: in recognition of academic performance at North South University.

2020, 25% tuition waiver: in recognition of academic performance at North South University.

Skills

Programming Languages: Python, C/C++, Java

Simulation Software: Logisim, Proteus

Frameworks / Libraries: TensorFlow, PyTorch, Scikit-learn

Development Platforms: Colab, Kaggle, AWS ML

Version Control: GitHub, Git

Web: HTML, CSS, JavaScript

LLM & Multimodal-LLM Access: Gemini Pro, Gemini Vision Pro

Certificates

2023 IELTS, Overall: 7.0; Speaking: 7.5, Reading: 7.5, Writing: 7, Listening: 6.5 [Certificate](#)

2022 Coursera, Deep Learning Specialization, Neural Networks and Deep Learning; Grade: 97%. [Certificate](#)

References

Dr. Nabeel Mohammed

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Department of Electrical and Computer Engineering
North South University
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