Mominul Islam

Company<

Google Scholar

ORCID

G GitHub

in LinkedIn

Education

BSc North South University, Computer Science and Engineering

Jan. 2019 - Jun. 2023

- CGPA: 3.86/4.00 (≈Top 4%)
- · Distinction: Summa Cum Laude
- · Major Courses:
 - Machine Learning
 - Natural Language Processing
 - Pattern Recognition & Neural Network

Experience _____

Intern Mar. 2024 – Jun. 2024

Business Systems 3 months

Beximco Communications Limited

Graduate AssistantJul. 2023 – Jun. 2024

Department of Electrical and Computer Engineering 11 months

North South University

Undergraduate Assistant Feb. 2022 – Jun. 2023

Department of Electrical and Computer Engineering
North South University

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

1 year 4 months

Computers in Biology and Medicine

Paper: doi.org/10.1016/j.compbiomed.2024.108317 ☑ | Code: GitHub ☑ | IF: 7.7 (Q1)

AI/ML Projects _____

Fine-Tuned the Pre-Trained T5 Transformer Model for Context-to-Question Generation

Jan. 2024

- 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

- Code: GitHub
- ML Domain: Text Summarization

Image-to-Image Translation via GAN to Address Class Imbalance

Sep. 2022

- Ref. Code: GitHub
- ML Domain: Generative Adversarial Networks
- · GAN Architecture: Nvidia's StyleGAN2-ADA

Skin Lesion Classification Using Cross-Stage CNNs and Transformers

• Ref. Code: GitHub

• ML Domain: Binary & Multi-Class Image Classification

• Models: ConvNeXt, Swin-Transformer, ViT

Heart Disease Detection Using Machine Learning

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: PyTorch, TensorFlow, LangChain, Scikit-learn

Development Platforms: Colab, Kaggle, AWS ML

Version Control: GitHub, Git Web: HTML, CSS, JavaScript, SQL

Miscellaneous: LaTeX

Languages _____

Bengali: Native **English:** Proficient

IELTS, Overall: 7.0 | Speaking: 7.5, Reading: 7.5, Writing: 7, Listening: 6.5 | Certificate 🗹

Oct, 2023

Aug. 2022

Jul. 2022

Certificates _____

2022 Coursera, Deep Learning Specialization, Neural Networks and Deep Learning; Grade: 97% | Certificate 🗹

References _____

Dr. Nabeel Mohammed

Associate Professor Department of Electrical and Computer Engineering North South University Dhaka, Bangladesh Email: nabeel.mohammed@northsouth.edu 🗹

Contact Number: (+880) 172 050 5591

Dr. Mohammad Ashrafuzzaman Khan

Assistant Professor Department of Electrical and Computer Engineering North South University Dhaka, Bangladesh Email: mohammad.khan02@northsouth.edu 🗹

Contact Number: (+880) 175 257 6450