



Md Niaz Morshed

Student Research Assistant

I am skilled in programming languages such as Python, Java, and R, and have experience with data analysis and visualization tools. I have experience in computer vision and worked in projects with various kind of machine learning and deep learning models.

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EDUCATION

Masters in Data Science University of Potsdam

08/2021 - Present

Potsdam, Germany

Bachelor of Science

American International University-Bangladesh

01/2017 - 09/2020

Dhaka, Bangladesh

Computer Science and Software Engineering

- **[Thesis]** Image Steganography based on Fredkin gate and Improved path distribution with Quantum key exchange protocol

PERSONAL PROJECTS

Pre-trained-Models with PyTorch(resnet18), to classify between the negative and positive samples [🔗](#)

- **change the output layer - train the model - identify several misclassified samples**

Deep learning model developed in google colab with TensorFlow hub using transfer learning (mobilenetv2) [🔗](#)

- **Image augmentation on the dataset - train the model - compare with different deep learning model - identify dog breed from custom image**

Classification with Python [🔗](#)

- **visualize and preprocess data - train different classifiers - evaluate the best classifier**

Biostatistics & Epidemiological Data Analysis using R [🔗](#)

- **Data preprocessing and analysis - data visualization - building classifiers and regressor - Interpret the model outcomes**

WORK EXPERIENCE

Student Research Assistant University of Potsdam

08/2023 - Present

Potsdam, Germany

Achievements/Tasks

- Data Prep, Analysis and Cleaning
- Creating & maintaining GitBook

Teaching Assistant

American International University-Bangladesh

01/2020 - 07/2020

Dhaka, Bangladesh

SKILLS

Python

Pandas

NumPy

Scikit-Learn

OpenCV

Tensorflow

PyTorch

Matplotlib

Seaborn

R

Neural Networks and Deep Learning

Computer Vision

Linux

Jupyter Notebook

Tableau

Git

Django

React

TailwindCSS

Javascript

Java

C++

SQL

ggplot

ACHIEVEMENTS

Deans List Awards

American International University-Bangladesh

Magna Cum Laude

Achieved Magna Cum Laude distinction for my Bachelor of Science in Computer Science and Software Engineering.

CONFERENCES AND SEMINARS

International Conference on Computing Advancements (ICCA) - 2020 (01/2020 - 01/2020)

In this International conference me and my teammate showcased a tangible user interface(TUI) as an HCI project which was titled as "Magnetic Control Track" where user can tangibly control the electromagnetic points in the track to navigate the object.

CERTIFICATES

IBM AI Engineering (08/2021 - 09/2021)

It certifies that I have technical skills to Implement ML algorithms including Classification, Regression, Clustering, and Dimensional Reduction • Perform ML on Big Data and deploy ML Algorithms and Pipelines on Apache Spark • Demonstrate understanding of Deep Learning models such as autoencoders, restricted Boltzmann machines, convolutional networks, recursive neural networks, and recurrent networks and build them.

LANGUAGES

English

Full Professional Proficiency

German

Elementary Proficiency