



AKM Shahariar Azad Rabby

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Artificial Intelligence (Machine Learning Applications)

Data Science and Computer Vision

I am a diligent individual who is self-taught in Machine Learning and Deep Learning, have experiences in creating advance analytics strategy using data and building intelligent machine with creative interfaces & experiences. My experience is a mix of two years in academia doing research in AI, machine learning, and data science. I am passionate about social innovation & about multidisciplinary approaches. I believe no problem is beyond human inventiveness.



Education

B.Sc. in Computer Science and Engineering

Daffodil International University

01/2015 -12/2018

CGPA: 3.47

Thesis

Computer Vision and Machine Learning.



Strategy & Leadership

Strategy Team Lead for Database Management

Daffodil International University, Dhaka, Bangladesh

- Technical leadership of a new team and new services for online GYM management.
<http://gymx.ga>

Innovation in Research.

- Awarded 1st runner up prize for the best project presentation on *2nd Symposium on Bangla Computational Linguistics* (SBCL)



Peer-Reviewed Publications

Ekush: A Multipurpose and Multitype Comprehensive Database for Online Offline Bangla Handwritten Characters.

- Largest Dataset for Bangla Characters
- Won Best Paper Award on RTIP2R

EkushNet: Using Convolutional Neural Network for Bangla Handwritten Recognition

- First model to classify all types of Bangla Characters
- Accepted and presented at ICACC 2018. Elsevier preceding

Bangla Handwritten Digit Recognition using Convolutional Neural Network

- Won Best Paper Award in IEMIS 2018

Ishara-Lipi: The First Complete Multipurpose Open Access Dataset of Isolated Characters for Bangla Sign Language

- Accepted and presented in ICBSLP 2018, IEEE Xplore preceding

ShonkhaNet: A Dynamic Routing for Bangla Handwritten Digits Recognition Using Capsule Network

- Accepted in rtip2r2018, Springer preceding
- First Model for Bangla Handwritten Digits using Capsule

OnkoGan: Bangla Handwriting digit Generation with Deep Convolutional Generative Adversarial Networks

- Accepted in rtip2r2018, Springer preceding
- First Model to Generate Bangla Handwritten Digits

A Simple and Mighty Arrowhead Detection Technique of Bangla Sign Language Characters with CNN

- Accepted in rtip2r2018, Springer preceding



Teaching & Experience

Lecturer

Daffodil International University

01/2019-Present

- Helping all students to gain expertise on the topic
- Trained and promoted education for all students

Instructor and Lab Assistant

Daffodil International University

01/2017-04/2017

- Assisted the course teacher
- Helping all students regarding their projects

Core Researcher

DIU NLP & ML Research Lab

- Writing modern, performing, maintainable code for a diverse array of research and internal projects
- Working with a variety of different languages, platforms, frameworks, and content management systems using Python, django, Tensor flow, Keras, HTML, JavaScript, and SASS
- Communicating with multi-disciplinary teams of engineers, designers, producers, and clients on a daily basis

Course Teacher & Mentor

DIU Computer Programming Club (DIUCPC)

- Taking courses on Python and Machine Learning
- Designing new course curriculum & labs
- Instructing students in labs



Certification

Deep Learning Specialization (Coursera)

- Course in Deep Learning, Keras and Tensorflow

Deep Learning with Tensor Flow (IBM Cognitive Class)

- Course in Deep Learning and Tensorflow

A Crash Course in Data Science (Coursera)

- Course in Data Science and Tools

Machine Learning (Coursera)

- Course in machine learning



Skills

Programming Languages

- Python
- C
- HTML /SASS
- PHP
- SQL
- JAVA

Frameworks

- Keras
- Tensorflow
- Pytorch
- Laravel
- Django
- Wordpress

Design

- Photoshop
- Illustrator
- Lightroom
- Adobe XD
- User Testing

Tools

- Git & Github
- Bash



Volunteering & Service

Souhardo (Project Manager)

A nonprofit organization to help unprivileged children

UC Browser (Campus Volunteer)

An internet browser from Alibaba Group

National Hackathon 2016 (Volunteer)

The National Hackathon 2016 featured social-public related issues as problem statement and asked the participants to innovate new solutions & solve those.



Reference

Prof. Dr. Sayed Akhter Hossain

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Daffodil International University

Head of Department of CSE

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Relation: Mentor

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Daffodil International University

Lecturer

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