Md. Zahidul Islam

Lecturer, Dept. of Computer Science & Engineering, Islamic University of Technology

② zahidulislam@iut-dhaka.edu **+8801753638013**

% https://zahid58.github.io/ github.com/zahid58

♀ IUT, Dhaka, Bangladesh in linkedin.com/in/zahid58

Education

Islamic University of Technology (IUT)

Ohaka, Bangladesh

m Jan 2017 - March 2021

B.Sc. in Computer Science and Engineering (CSE)

CGPA - **3.99**/4.00, Ranked **1**st in class of 86

Thesis — Efficient Two-Stream Network for Violence Detection Using Separable Convolutional LSTM Supervisor - Dr. Md. Hasanul Kabir

• Notable Courses - Digital Image Processing, Machine Learning, Artificial Intelligence, Numerical Methods, Database Management System, Algorithms, Data Structure, Object Oriented Programming

Cumilla Cadet College

♀ Cumilla, Bangladesh

2010 - 2016

- Higher Secondary Certificate (HSC), 2016 GPA: 5.00/5.00, Ranked 3rd in Cumilla Education Board
- Secondary School Certificate (SSC), 2014 GPA: 5.00/5.00, Ranked 1st in Cumilla Education Board

Professional Experience

Islamic University of Technology

Ohaka, Bangladesh

₩ July 2021 - Present

Lecturer, Dept. of Computer Science and Engineering

- Courses Conducted Computing for Engineers
- Labs Conducted Data Structures, Microprocessor and Assembly Language, Engineering Drawing

Apurba Technologies Ltd.

♥ Dhaka, Bangladesh

March 2021 - June 2021

Machine Learning Engineer

- Worked on research and development of large-scale Bangla OCR systems.
- Development & integration of image processing and machine learning based methods for computer vision tasks.

Samsung R & D Institute Bangladesh

Ohaka, Bangladesh

Mov 2019 - Jan 2020

Intern, Mobile Application Development

• Worked on recognition of human walking patterns with smartphone accelerometer data using deep learning techniques to identify real user of smartphone.

Research Experience

ORCID

Publications

[1] Zahidul Islam, Mohammad Rukonuzzaman, Raiyan Ahmed, Md. Hasanul Kabir, Moshiur Farazi "Efficient Two-Stream Network for Violence Detection Using Separable Convolutional LSTM" Presented in International Joint Conference on Neural Networks (IJCNN), 2021 [In Press] Paper

Reviewing Experience

Worked as a reviewer for the journal IEEE Access (x2)

June 2021

• Worked as a reviewer for the journal Applied Artificial Intelligence (AAAI)

Aug 2021

Field of Interest

• Computer Vision

• Deep Learning

• Digital Image Processing

• Pattern Recognition

Skills

- Languages Python, Java, C++, C, SQL
 Deep Learning & Machine Learning Tensorflow, PyTorch, Scikit-learn
- Image Processing OpenCV, MATLAB Web HTML, CSS, JS (frontend)
- OS UNIX shell, x86 Assembly

Online Courses

• Deep Learning Specialization, DeepLearning.Al, Coursera, Verify

Feb 2020

• TensorFlow Developer, DeepLearning.Al, Coursera, Verify

April 2020

• Machine Learning, Standford University, Coursera, Verify

Aug 2019

Projects

www.github.com/zahid58

Inpainter

Python, PyQt, OpenCV

 A python GUI application that lets you fill up missing or damaged areas or remove foreground objects from images easily.

Traffic Sign Localization and Recognition

Python, Tensorflow

A two stage system where at first, region of interests likely to contain traffic signs are found out using Voila-Jones
object detection algorithm. Then, a deep neural network recognizes the traffic signs.

EasyScan OCR Whiteboard

Python, OpenCV, Tesseract

 A interactive GUI digital whiteboard with live handwriting recognition (OCR). This feature allows saving whiteboard sessions as texts and helps improve the understandability of the handwriting.

Tsaurus Node JS, Python, OpenCV

• Helps children learn new words in a fun way by simply taking photo of text. The software fetches relevant images, dictionary meaning etc. from internet. It uses OCR and webscrapping tools.

Inverse Kinematics Python, Sympy, Matplotlib

 Automates the movement of a robotic arm with 6 degrees of freedom and visualizes it using an easy to use graphical interface.

Awards & Accolades

European Rover Challenge

2019, 2018

 Achieved 15th position in ERC 2019 and 14th position (best among Asian teams) in ERC 2018 with Team IUT Mars Rover. Worked on robotic arm manipulation and cache retrieval using image processing.

Matlab Coding Challenge

2020, 2019

- Champion in Matlab Mania at Horizon 2020, organized by KUET.
- Champion in Matlab Challenge at Esonance 2019, organized by dept. of EEE, IUT.

ICT Olympiad

• Champion in ICT Olympiad at IUT 10th ICT Fest organized by dept. of CSE, IUT.

Line Following Robot Racing

2018

2019

• Runners up in LFR Racing at Technovision organized by ECE dept., North South University.

Programming Contest

2017

• 4th position in Intra IUT programming contest.

Scholarships 2016, 2014

- OIC Scholarship for undergraduate study at IUT, by Organization of Islamic Cooperation (OIC)
- Govt. Scholarships for HSC and SSC results, by Bangladesh Education board

Reference

Dr. Md. Hasanul Kabir

Professor,

Dept. of Computer Science and Engineering, Islamic University of Technology (IUT),

Email: hasanul@iut-dhaka.edu,

Phone: +8801715007049

Abu Raihan Mostofa Kamal

Professor and Head of the Dept.,

Dept. of Computer Science and Engineering, Islamic University of Technology (IUT),

Email: raihan.kamal@iut-dhaka.edu

Phone: +8801843925543