Kazi A. Asif Fuad

Machine Learning Researcher
Computer Vision Researcher

August 22, 1992

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Hard Skills

- Python
- C/C++
- MATLAB
- Machine Learning
- Deep Learning
- OpenCV
- PyTorch
- TensorFlow 2.0
- Keras
- HTML, CSS, Javascript
- QT (C++)
- VHDL, SystemVerilog

and relevant softwares.

Soft Skills

- Team Management
- Organising Event

Languages

- Bangla
- English

Field of Interests

Computer Vision, Machine Learning, Deep Learning, Explainable AI, Augmented, Virtual and Mixed Reality, Predictive Systems

Experience

2020 – 2020 — **Master Thesis Intern** — LaBRI
Master Thesis on "Explainable Artificial Intelligence"

2019 – 2019 — **Openlab Summer Student** — CERN openlab
Research on "Graph Neural Network (GNN) Inference on FPGAs"

2016 – Present — **Lecturer** — American International University-Bangladesh(AIUB)
Responsible for taking classes of undergraduate students on Analog and Digital Electronic Courses

2014 – 2016 — **Teaching Assistant** — American International University-Bangladesh(AIUB)
Responsible for assisting teachers to take laboratory classes of final year undergraduate students

Education

2018 – 2020 — **Erasmus+Mundus Joint Master Degree on Image Processing and Computer Vision (IPCV)** — UB,UAM,PPCU
Focus: Advanced Image processing and Computer Vision Algorithms and Applications

Tutored Research Development Project — UB,UAM
Multi-Camera Object Detection and Association

Mater Thesis — LaBRI
Recognition of Sport Gestures with 3D Deep CNNs: Explanation of Networks

2014–2015 — **MSc. in Electrical and Electronic Engineering** — AIUB
Focus: Digital Hardware Design, Microelectronics and VLSI Design

Master Thesis — AIUB
Area-Efficient FPGA Realization of Edge Detectors by Varying Sample-Widths and Gradient Operators and Utilizing Software-Hardware Co-Design

2009–2013 — **BSc. in Electrical and Electronic Engineering** — AIUB
Focus: Electronic and Power Engineering

Bachelor Thesis — AIUB
Designing and Implementation of Centralized Load Controlled Automated Power System Network-CLCAPSN

Publications

2020	Features understanding in 3D CNN for actions recognition in video[Accepted]	IPTA-2020
2018	Watch IT Version-II: An Assistive Device for Hearing and Speaking Impaired	SAIISC
2017	Automated anti-collision system for automobiles	ECCE
2015	Hardware Software Co-Simulation of Canny Edge Detection Algorithm	IJCA
2015	Varying Sample-Width to Realize Area-Efficient FPGA Realization of Sobel-Fieldman Edge Detector	AJSE
2015	Hardware/Software Co-Simulation of Gradient-based Edge Detectors: A Comparative Study	STM JoIPPRP
2015	Design and simulation of centralized load controlled automated power system network(CLCAPSN)	WIECON-ECE 2015

Certifications

2019	Neural Networks and Deep Learning Credential ID: D8ECHRWRH2UN	deeplearning.ai, Coursera
2019	Machine Learning Credential ID: LK4WHUY7PW7D	Stanford University, Coursera
2019	Machine Learning with Python Credential ID: DJMB9242WT5P	IBM, Coursera

Honours and Scholarship

2018 – 2020	Erasmus+Mundus Joint Master Scholarship	IPCV, European Union
2016	Summa Cum Laude, MSc.	AIUB
2016	Vice-Chancellor's Best Master Thesis Award	AIUB
2014	Vice-Chancellor's Best Bachelor Thesis Award	AIUB

Extra-Curricular Activities

2019 – 2020	Student Representative, IPCV Advisory Board
2016 – 2018	Motivator, IEEE AIUB Student Branch
2018	Vice-Chair(Technical), IEEE Young Profession als Bangladesh