Kazi A. Asif Fuad

Machine Learning Researcher
Computer Vision Researcher

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asif-fuad

asifahmedfuad

Hard Skills

- Python
- C/C++
- MATLAB
- Machine Learning
- Deep Learning
- OpenCV
- Keras
- TensorFlow 2.0
- PyTorch
- C#
- Unity3D
- 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, Augmented, Virtual and Mixed Reality, Predictive Systems

Experience

2019 – 2019	**Openlab Summer Student** Research on "Graph Neural Network (GNN) Inference on FPGAs"	CERN openlab
2016 – Present (On Study Leave)	**Lecturer** Responsible of taking classes of undergraduate students on Analog and Digital Electronic Courses	American International University-Bangladesh(AIUB)
2014 – 2016	**Teaching Assistant** Responsible of assisting teachers to take laboratory classes of final year undergraduate students	American International University-Bangladesh(AIUB)

Education

2018 – 2020	**Erasmus+Mundus Joint Master Degree on Image Processing and Computer Vision (IPCV)** Focus: Advanced Image processing and Computer Vision Algorithms and Applications	UB,UAM,PPCU
	Tutored Research Development Project Multi-Camera Object Detection and Association	UB,UAM,PPCU
2014–2015	**MSc. in Electrical and Electronic Engineering** Focus: Digital Hardware Design, Microelectronics and VLSI Design	AIUB
	Master Thesis Area-Efficient FPGA Realization of Edge Detectors by Varying Sample-Widths and Gradient Operators and Utilizing Software-Hardware Co-Design	AIUB
2009–2013	**BSc. in Electrical and Electronic Engineering** Focus: Electronic and Power Engineering	AIUB
	Bachelor Thesis Designing and Implementation of Centralized Load Controlled Automated Power System Network-CLCAPSN	AIUB

Publications

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
2016	Publicity Coordinator, IEEE Bangladesh Section