Mohamed Afham

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Education

University of Moratuwa, Sri Lanka Aug 2017 - Present (Expected Graduation: Apr 2022)
CGPA: 3.76 (First Class Honours)
B.Sc (Hons) - Electronics and Telecommunication Engineering Dean's List: Semester 1,2,4

St. Joseph's College, Colombo, Sri Lanka Grad: Dec 2016
GCE Advanced Level (Mathematics, Physics, Chemistry, General English) 4As / 11th in country / z-score of 2.78
(country-wide university entrance examination taken by over 100,000 students annually)

MOOCs
Deep Learning: 5-course specialization (on Coursera) (Certificate earned - May 2020)
Mathematics for Machine Learning Specialization (on Coursera) (Certificate earned - Dec 2019)

Experience

VeracityAI, Colombo, Sri Lanka
Associate Machine Learning Engineer - Part time (Jun 2021 - Present)

- Research and development of state-of-the-art algorithms for vehicle damage detection system
- Experimenting with real-world dataset of vehicle damages with the developed algorithms

MBZUAI, Abu Dhabi, UAE
Research Assistant - Internship (Oct 2020 - Apr 2021)

- Worked as a research assistant for the computer vision department in the university research division.
- Research on Few Shot Learning with focus on leveraging natural language descriptions to improve few-shot image classification

Publications

Mohamed Afham, Salman Khan, Muhammad Haris Khan, Muzammal Naseer and Fahad Shahbaz Khan, **Rich Semantics Improve Few-Shot Learning** (submitted for review)

Research Projects

In bed Human Pose Estimation (June 2021 - Present)

- Research and experimentation with state-of-the-art methods for domain adaptation in in-bed pose estimation
- Analysis on various domain adaptation techniques for pose estimation

Few-Shot / Zero-Shot Learning (Oct 2020 - Present)

- Research and experimentation on state-of-the-art few-shot image classification methods
- Analysis on integrating natural language descriptions to improve few-shot image-classification
- Research on the feature generative models for zero-shot object detection

Undergraduate Research Project (Apr 2021 - Present)

- Experimentation on state-of-the-art 3D point cloud processing algorithms
- Research on improving convolution operators for 3D point cloud latent space generation

Other Projects

Twitter Sentiment Analysis Github Link, Blog Article
Memory Augmented Neural Networks - Re implementation Github Link, Blog Article

Selected Awards / Hackathons

IEEE SMC Winners - BR41N.io hackathon, IEEE SMC Conference, Toronto 2020
Ranked 191st in the world - IEEExtreme 13.0 2019
Bronze Medalist - International Mathematics Competition for University Students, Bulgaria 2018
Honorable Mention - International Mathematics Olympiad (IMO), Thailand 2015
Merit Award - International Mathematics Competition 2014
Gold Medalist - Sri Lanka Physics Olympiad 2016

Skills

Languages: Python (proficient), MATLAB **Tools**: PyTorch, Tensorflow, AWS
Experience & Interests: Computer Vision, Machine Learning