ABDUL MUQEET

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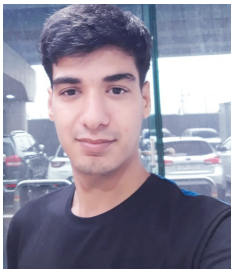

EDUCATION

Kyung-Hee University, South Korea *Sep 2018 - Present*

Master of Science in Computer Science Engineering **GPA : 4.11 / 4.3** (Full scholarship)

Advisor: Prof. Dr. Sung-Ho Bae

University of Karachi, Pakistan *Jan 2011 - Dec 2014*

Bachelor of Science in Computer Science Engineering

GPA: 3.52 / 4.00 **(Third Position)**

Thesis: Haze Removal using improved automatic quick shift segmentation

- Literature review of Haze Removal and Segmentation Techniques
- Novel Haze Removal method using improved iterative quick-shift segmentation

Advisor: Prof. Dr. Humera Tariq

EXPERIENCE

Graduate Research Assistant *Sep 2018 - Present*
Focusing on:

- Efficient Deep Learning models for Image Restoration (**National Research Foundation, Korea**).
- Multitask Learning

Research Assistant *Jan 2015 - July 2018*
Responsibilities were:

- Producing the results for Skull Stripping methods on different datasets
- Quantitative analysis of fog removal methods

PROJECTS

- Low-Power CNN Architectures for Real-Time Image Restoration Applications
  - Designing an efficient neural network architectures for Image Restoration applications
- Universal Neural Network
  - Designing a single network to handle several multi-domain and multi-task applications

PUBLICATIONS

Conferences

1. **A Muqeet**, AFM Uddin, SH Bae. A Novel Shuffle Residual Module for Single Image Super-Resolution, European Conference of Computer Vision (ECCV), 2020. (Under review)
2. **A Muqeet**, SH Bae. Effective Utilization of Hybrid Residual Modules in Deep Neural Networks for Super Resolution, International Conference on MultiMedia Modeling (MMM), 2020.
3. **A Muqeet**, SH Bae. Mixed Convolutional Layer for Image Super-Resolution, Korea Computer Congress (KCC), 2019.
4. S bin Sami, **A Muqeet**, H Tariq. A Novel Image Dehazing and Assessment Method, IEEE International Conference on Information and Communication Technologies (ICICT), 2019.

Journals

1. MTB Iqbal, **A Muqeet**, SH Bae. Visual Interpretation of CNN prediction through Layerwise Sequential Selection of Discernible Neurons, Pattern Recognition, 2020. (Under review) (SCIE index, IF: 5.898)
2. SH Bae, JH Bae, **A Muqeet**, LW Kim. Cost-Efficient Super-Resolution Hardware using Local Binary Pattern Classification and Linear Mapping for Real-Time 4K Conversion, IEEE Access, 2019. (Under review) (SCIE index, IF: 4.098)
3. M Ali, MTB Iqbal, KH Lee, **A Muqeet**, SH Bae. ERDNN: Error-Resilient Deep Neural Networks with a New Error Correction Layer and Piece-wise Rectified Linear Unit, IEEE Access, 2019. (Under review) (SCIE index, IF: 4.098)
4. **A Muqeet**, MTB Iqbal, SH Bae. HRAN: Hybrid Residual Attention Network for Single Image Super-Resolution. IEEE Access, vol. 7, pp. 137020 - 137029, 2019. (SCIE indexed, IF: 4.098)
5. H Tariq, **A Muqeet**, A Burney, M Akhter Hamid, H Azam. Otsus segmentation: Review, visualization and analysis in context of axial brain MR slices. Journal of Theoretical and Applied Information Technology (JATIT), Volume 95, Issue, 22, pp. 6042-6055, 2017 (scopus index) (Bachelor's work)

ONLINE COURSES

- Deep Learning Nano-degree on Udacity (Enrolled)
- Deep Learning Specialization by DeepLearning.ai on Coursera (Instructor: Prof. Andrew Ng)
  - Sequence Models
  - Convolutional Neural Networks
  - Structuring Machine Learning Projects
  - Improving Deep Neural Networks: Hyper parameter tuning, Regularization and Optimization
  - Neural Networks and Deep Learning
- Machine Learning Specialization by University of Washington on Coursera (Instructor: Prof. Carlos Guestrin and Prof. Emily Fox)
  - Machine Learning: Regression
  - Machine Learning Foundations: A Case Study Approach
- CS231n Convolutional Neural Networks for Visual Recognition by Stanford University (Instructor: Prof. Andrej Karpathy)

- Machine Learning by Stanford University on Coursera (Instructor: Prof. Andrew Ng)
- Fundamentals of Digital Image and Video Processing by Northwestern University on Coursera (Instructor: Prof. Aggelos K. Katsaggelos)

SKILLS

Programming Languages: Python, Matlab, C/C++, C#
Frameworks: Pytorch, Keras, TensorFlow, Caffe

AWARDS & HONORS

- Fully funded scholarship for MS in Computer Science Engineering at Kyung Hee University **(Worth $48,000)**
- **Third Position** in Bachelor of Computer Science Engineering
- Best Final Year Project & Presentation in Bachelors
- Microsoft Certified Professional