Shubhra Aich Email: s.aich.72@gmail.com

https://littleaich.github.io s.aich@usask.ca https://www.linkedin.com/in/shubhra-aich Mobile: +1-306-914-4619

https://github.com/littleaich

https://www.kaggle.com/shubhraaich

EDUCATION

University of Saskatchewan

Master of Science in Computer Science; Marks: 86%

Chonnam National University

Master of Engineering in Electronics and Computer Engineering; GPA: 3.85 (4.30/4.50)

Saskatoon, Canada

Jan 2017 – Present

Gwangju, South Korea

Sep 2014 – Aug 2016

Bangladesh University of Engineering and Technology

Bachelor of Science in Electrical and Electronic Engineering; GPA: 3.23

Dhaka, Bangladesh Jan 2008 – Dec 2012

EXPERIENCE

Samsung R&D Institute Bangladesh (SRBD)

 $Software\ Engineer$

Dhaka, Bangladesh Apr 2013 - Aug 2014

TECHNICAL SKILLS

- Languages: Python, MATLAB, C/C++, Lua, R
- \bullet Toolkits: PyTorch, Torch, OpenCV, scikit-learn, scikit-image

Thesis Projects

• Object Counting with Deep Learning (Ongoing): Counting object instances from images. See "Publications" for further details.

Self-Driven Projects

- (Kaggle) Carvana Image Masking Challenge: High resolution car image segmentation (binary) problem. Ranked 18/735 (Top 3%) under the name of "biglab-usask".
- (Kaggle) Cdiscount's Image Classification Challenge: Large-scale e-commerce image classification challenge over 5270 categories. The training and the test datasets comprise about 12 million images and 1.7 million products, respectively. Ranked 103/627 teams (Top 17%).
- (Kaggle) TensorFlow Speech Recognition Challenge: Classification of speech signal over 10 different categories. Finished in top 27%(351/1315).

RESEARCH INTERESTS

• | Machine Learning | Computer Vision | NLP Aided Visual Learning |

Publications

- S. Aich, W. van der Kamp, and I. Stavness. Semantic Binary Segmentation using Convolutional Networks without Decoders. *Under review (DeepGlobe CVPR Workshop 2018)*.
- S. Aich, and I. Stavness. Improving Object Counting with Heatmap Regulation. Under review (ECCV 2018). ArXiv
- S. Aich et al. DeepWheat: Estimating Phenotypic Traits from Crop Images with Deep Learning. WACV 2018. ArXiv Code
- S. Aich, and I. Stavness. Leaf Counting with Deep Convolutional and Deconvolutional Networks. Workshop ICCV 2017 (Oral). ArXiv Code
- S. Aich. Recognition of Flower Species using Visual Vocabulary of Compound Descriptors. *Masters Thesis, South Korea, 2016.* PDF Code
- S. Aich, and C-W. Lee. A General Vocabulary Based Approach for Fine-Grained Object Recognition. *PSIVT*, 2015. Link Code

MOOC VERIFIED COURSES

- Coursera: | Deep Learning Specialization (Andrew Ng) | Machine Learning by University of Washington | The Data Scientist's Toolbox | Algorithms by UC San Diego | Synapses, Neurons and Brains by Hebrew University of Jerusalem |
- Stanford Online: | Statistical Learning |
- Links to all the Verified Certificates