Shubhra Aich

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EDUCATION

- **University of Saskatchewan** — Saskatoon, Canada
  Master of Science in Computer Science; Marks: 86% — *Jan 2017 – Present*

- **Chonnam National University** — Gwangju, South Korea
  Master of Engineering in Electronics and Computer Engineering; GPA: 3.85 (4.30/4.50) — *Sep 2014 – Aug 2016*

- **Bangladesh University of Engineering and Technology** — Dhaka, Bangladesh
  Bachelor of Science in Electrical and Electronic Engineering; GPA: 3.23 — *Jan 2008 – Dec 2012*

EXPERIENCE

- **Samsung R&D Institute Bangladesh (SRBD)** — Dhaka, Bangladesh
  Software Engineer — *Apr 2013 - Aug 2014*

RESEARCH INTERESTS

- Computer Vision
- Applied Machine Learning (Deep Learning, Graphical Models, etc.)
- NLP Aided Visual Learning

PUBLICATIONS

- **S. Aich**, I. Ahmed, I. Obsyannikov, I. Stavness, A. Josuttes, K. Strueby, H. Sudhakar Duddu, C. Pozniak, and S. Shirtliffe. 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. *Accepted ICCV-CVPPP Workshop 2017*. 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

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).

SOFTWARE SKILLS

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

ONLINE CERTIFICATES

- **(Coursera) Deep Learning Specialization (Andrew Ng)**: | Neural Networks and Deep Learning |
- **(Coursera) Machine Learning by University of Washington**: | Machine Learning Foundations: A Case Study Approach | Machine Learning: Regression | Machine Learning: Classification |
- **(Coursera) Data Science by Johns Hopkins University**: | The Data Scientist's Toolbox | R Programming | Getting and Cleaning Data | Exploratory Data Analysis | Reproducible Research | Statistical Inference |

- **(Coursera) Synapses, Neurons and Brains by Hebrew University of Jerusalem**

- **(Coursera) Algorithms by UC San Diego**: | Algorithmic Toolbox | Algorithms on Graphs |
- **(Stanford Online) Statistical Learning**