

# Shubhra Aich

<https://littleaich.github.io>

<https://www.linkedin.com/in/shubhra-aich>

<https://github.com/littleaich>

<https://www.kaggle.com/shubhraaich>

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## EDUCATION

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- **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

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

## RESEARCH INTERESTS

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

## PUBLICATIONS

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- **S. Aich**, I. Ahmed, I. Obsyannikov, I. Stavness, A. Josuttis, K. Strueby, H. Sudhakar Duddu, C. Pozniak, and S. Shirliffe. DeepWheat: Estimating Phenotypic Traits From Images of Crops Using Deep Learning. *Under review WACV 2018*. [ArXiv](#)
- **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

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- **(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%).

## SOFTWARE SKILLS

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

## ONLINE CERTIFICATES

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- **(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**