Po-Chih (Brian) Huang

♠ pochih.github.io | ☐ pochih | ☑ brianhuang1019@gmail.com | ☐ pochih

Education

National Taiwan University

Taipei, Taiwan

Sept. 2016 - Aug. 2018

M.S. IN COMPUTER SCIENCE & INFORMATION ENGINEERING

- · Advised by Prof. Pu-Jen Cheng
- Average GPA: 4.20/4.3

National Taiwan University

Taipei, Taiwan

B.S. IN COMPUTER SCIENCE & INFORMATION ENGINEERING

Sept. 2012 - June 2016

- Be the third-place winner of the *Presidential Award* in Senior
- Last 60 GPA: 4.08/4.3

Research ___

Sentiment Analysis

Python & Pytorch

- Master thesis focus on *Targeted Sentiment Analysis*, my method reaches the latest state-of-the-art
- Survey and review sentiment analysis papers from top conferences, include but not limited to ACL / EMNLP / COLING / NIPS / AAAI
- Research repository can found at https://github.com/pochih/SA-papers

Rethink generalization of Deep Learning

Python & Keras

- · Dig deep into the generalization ability, conclude that the neural network will learn patterns first, and memorize noises later
- Report can found at https://ntumlds.wordpress.com/2017/03/27/r05922018_drliao

Projects

Reinforcement Learning Chatbot

Python & Tensorflow

- $\bullet \ \ Train\ the\ chatbot\ with\ a\ seq 2 seq\ model\ until\ convergence, then\ leverage\ reinforcement\ learning\ to\ generate\ more\ interesting\ results$
- 100+ Stars on Github. Code can found at https://github.com/pochih/RL-Chatbot

Image Retrieval Python & Pytorch

- Extract features from a query image, represent it on a lower dimensional space, and retrieve the most similar image from database
- Code can found at https://github.com/pochih/CBIR

Video Captioning Python & Tensorflow

- Extract video features from pretrained VGG net, feed it into an encoder-decoder model constructed with two LSTMs for text generation
- Code can found at https://github.com/pochih/Video-Cap

Semantic Segmentation

Python & Pytorch

- Reproduce CVPR 2015 best paper honorable mention, use fully convolutional networks to predict pixel-wise label of self-driving car
- $\bullet \ \ \, {\sf Code\ can\ found\ at\ https://github.com/pochih/FCN-pytorch}$

Employment _

National Taiwan University

Taipei, Taiwan

TEACHING ASSISTANT Sep. 2017 - Feb. 2018

• Course: EE5184 Machine Learning, taught by Prof. Hung-yi Lee

HTC Taipei, Taiwan

SUMMER INTERN Jul. 2017 - Aug. 2017

• Implement deep learning training platform

Skills_

LANGUAGES

Python Use it for data analyzing & projects demoing

Tools

Pytorch Use it to train complex networks

Tensorflow Use it when efficiency is highly concerned Keras Use it for quick deep learning experiments