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Education

Cornell Tech New York City, US

M.S. in Information Systems and Applied Information Science

National Taiwan University

Taipei, Taiwan

B.S. in Engineering Science and Ocean Engineering (GPA: 3.86)

Sep.2016 - Aug.2020

Aug.2021 - Present

Skills

Programming Python, C++, Java, C, SQL, Bash, JavaScript, HTML, CSS (ordered by proficiency)

Systems & Libraries UNIX, Linux, PyTorch, Tensorflow, Flask, Scrapy, Selenium, Git

Work & Teaching Experience_

Chinese Knowledge and Information Processing Laboratory, Academia Sinica

Taipei, Taiwan

Research Assistant (Full Time)

Aug. 2020 - Jun. 2020

- Worked on various NLP topics with a focus on Data-to-Text Generation.
- Devised a Dynamic Content Planning schema (DCP) for Data-to-Text Generation that mimics the thought process of humans.

Cathay Financial Holdings Co., Ltd.

Taipei, Taiwan

Data Scientist Intern

Jul. 2019 - Jun. 2020

Developed an unsupervised representation learning toolkit for tabular data, boosting the performance of a variety of downstream tasks.

National Taiwan University

Taipei, Taiwan

Research Assistant (Part-Time)

Mar. 2020 - Jun. 2020

- Improved & deployed a web scraper with a 80% speed-up compared to the prior system.
- Designed a syntax processing pipeline using POS tagging and constituency parsing that extracts essential information in job postings.

National Taiwan University

Taipei, Taiwan

Teaching Assistant

Sep. 2019 - Jan. 2020

• Teaching assistant for the Machine Learning course [EE5184]

Publications/Projects _

Lightweight ONtology-independent Networks for Schema-Guided Dialogue State Generation

DSTC8

https://github.com/MiuLab/LION-Net

- Built a seq2seq dialogue state generator which requires 85% less training time and 80% less memory usage than the official baseline approach while achieving higher prediction accuracy.
- Kai-Ling Lo, Ting-Wei Lu, Tzu-Teng Weng, I-Hsuan Chen, Yun-Nung Chen. 2020. Lion-net: Lightweight ontology-independent networks for schema-guided dialogue state generation. In Dialog System Technology Challenge Workshop (DSTC8) in Proceedings of Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI 2020), New York, USA, 2020.

Data-to-Text Interactive Website

CKIP Lab

https://ckip.iis.sinica.edu.tw/service/data2text/

- Launched a website demonstrating our Dynamic Content Planing (DCP) algorithm. The site converts NBA Box-Score data into a game summary.
- Flask, PyTorch, Python, JavaScript, HTML, CSS

BERTable: Universal Representation Learning Toolkit for Tabular Data

Cathay Holdings

https://github.com/dwaydwaydway/BERTable

- Published a cross-datatype representation learning toolkit for tabular data using transformer-based model.
- Experiments shows that our work raises the performances of downstream tasks, especially those consists of unlabeled data and missing values.
- · PyTorch, Python

Ticket Reservation System

NTU

https://github.com/dwaydway/Reservation-System

- Developed a ticket reservation system in Jave using Command Design Pattern with a MySOL back-end system.
- · Java, MySQL, JDatePicker

Competitions

2019 **20th / 26 teams**. The 8th Dialog System Technology Challenge.

International

2019 1st / 14 teams. Self-Navigating Boat Contest.

National Taiwan University

7 **Honorable Mention.** App Creativity Contest.

National Taiwan University

Leadership/Extracurricular Activities_

Varsity Baseball Team

• Captain of the department baseball team and member of the varsity team. Won 2 regional championships.