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Education

Cornell University 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)

Libraries & Toolkits PyTorch, Tensorflow, Flask, Scrapy, Selenium, Git, Linux

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-scraping system with a 400% speed-up compared to the prior system.
- · Designed a syntax processing pipeline 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 with copy mechanism for Schema-Guided Dialogue State Tracking.
- · 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.

Dynamic Data-to-Text Demo System

CKIP Lab

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

- · Launched a demo system for our Dynamic Content Planing (DCP) algorithm. 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.
- · Distributed representations of both categorical and numerical data were learned by recovering missing values.
- · PyTorch, Python

Ticket Reservation System

NTU

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

- · A ticket reservation system in Jave using Command Design Pattern and a MySQL backend system.
- · Java, MySQL, JDatePicker

Competitions

4th / 124 schools. National Rubber Baseball Series.

Taiwan

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

National Taiwan University

Honorable Mention. App Creativity Contest.

National Taiwan University

Extracurricular Activities

Varsity Baseball Team

National Taiwan University

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