

Taipei, Taiwan

□ (+886) 953-973-311 | **y**uhsiang881027@gmail.com | **□** coffree0123

Education

National Taiwan University (NTU)

Taipei, Taiwan

Advisor: Prof. Shou-De Lin

2022/09 - PRESENT

National Taiwan University (NTU)

Taipei, Taiwan

B.S. MAJORED IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

M.S. MAJORED IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

2018/09 - 2022/06

B.S. MINORED IN ECONOMICS

2019/09 - 2022/06

Working Experience

Microsoft

Taipei, Taiwan

APPLIED SCIENTIST INTERN

2023/07 - 2024/06 (Expected)

- Implement hotfix pipeline to reduce the time required to change data for the spelling model from several hours to several minutes.
- Implement regex override pipeline to speed up the deep speller model inference by over 100%.

Appier Taipei, Taiwan

MACHINE LEARNING SCIENTIST INTERN

2023/02 - 2023/06

- Develop a personalized recommendation model that achieve a remarkable 10% increase in click-through rates compared to previous methods.
- Develop a GPT-based product tagging model that shows approximately a 40% performance improvement compared to the previous tagging methods during annotation experiments.
- Implement multi-threading and backup mechanisms to accelerate the GPT-based tagging process, resulting in a significant 2.5x speed boost.

Project

Surrogate-Assisted Document Embedding Inversion Attack

ADVISOR: PROF. SHOU-DE LIN Fall 2022 - Spring 2023

- Develop a model that can invert document embeddings using an adversarial training framework, given limited query data.
- Our method outperforms other baseline methods by more than 20% in terms of the precision score under limited training data.

Gpt-based voice assistant

SKILLS: PROMPTING, NATURAL LANGUAGE PROCESSING

Spring 2023

- Develop a voice assistant based on GPT that can perform various tasks.
- Using the **prompting method** to reduce the time required to develop a new skill from **several days** to **several hours**.

Travelight

Skills: Web Development Fall 2022

- Solve the route planning problem by introducing a traveling salesman problem solver.
- Utilizing multi-threading approach to achieve asynchronous requests, we speed up place searches by more than 50%.

Academic Experience

Machine Discovery & Social Network Mining Lab

NTU

Advisor: Prof. Shou-De Lin

Fall 2021 - Spring 2022

Investigate the privacy issue and adversarial attack method for document embedding.

Machine Intelligence and Understanding Lab

NTU

ADVISOR: PROF. YUN-NUNG CHEN

Spring 2021

• Evaluate the transferability of the dialogue state tracking method on different datasets.

Teaching Assistant

NTU

Probability (Prof. Shou-De Lin)

Spring 2022

MACHINE LEARNING FOUNDATIONS/TECHNIQUES (PROF. HSUAN-TIEN LIN)

Fall 2020

Skills