

Yu-Hsiang Huang

Taipei, Taiwan

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Education

National Taiwan University (NTU)

M.S. MAJORED IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Taipei, Taiwan

2022/09 - PRESENT

National Taiwan University (NTU)

B.S. MAJORED IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Taipei, Taiwan

2018/09 - 2022/06

B.S. MINORED IN ECONOMICS

2019/09 - 2022/06

- Cumulative GPA: 3.98/4.3 (top 30%)
- Academic Excellence Award: Fall 2018

Working Experience

Appier

MACHINE LEARNING SCIENTIST INTERN

Taipei, Taiwan

2023/02 - PRESENT

- Build a recommendation model to provide personalized product suggestions based on tags.
- Collaborate with cross-functional teams to ensure seamless integration of the recommendation model.

Teaching Assistant

PROBABILITY (PROF. SHOU-DE LIN)

NTU

Spring 2022

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

Fall 2020

Research Experience

Machine Discovery & Social Network Mining Lab

ADVISOR: PROF. SHOU-DE LIN

NTU

Fall 2021 - Spring 2022

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

Machine Intelligence and Understanding Lab

ADVISOR: PROF. YUN-NUNG CHEN

NTU

Spring 2021

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

Project

Travelight

TOUR RECOMMENDATION SYSTEM WITH AN OPTIMIZATION ROUTE PLANNER.

Fall 2022

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

Embedding privacy attack with semantic-aware decoder

ADVISOR: PROF. SHOU-DE LIN

Spring 2022

- Propose an embedding inversion attack model that can attack several kinds of document embedding algorithms.
- Gain significant improvement on embedding inversion attack by introducing **ranking loss** and **topic model**.

Dialogue State Tracking With Chit-chat

COMPETITION ABOUT DIALOGUE STATE TRACKING WITH SEEN AND UNSEEN DOMAIN.

Spring 2021

- View this task as a sequence to sequence problem and modify **T5DST** with **schema-guided approach** to solve it.

Skills

Language Chinese (native), English (fluent)

Developer tools Git, WSL, Docker, Vscode

Programming Languages Python, C/C++, JAVA, Shell Script

Frameworks and Libraries Pytorch, Sklearn, Transformers, Matplotlib