# Yu-Hsiang **Huang**

*Taipei, Taiwan*

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## **Edu**cation

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| **National Taiwan University (NTU)** | *Taipei, Taiwan* |
| Advisor: Prof. Shou-De Lin | |
| M.S. Majored in Computer Science and Information Engineering | *2022/09 - PRESENT* |

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| **National Taiwan University (NTU)** | *Taipei, Taiwan* |
| B.S. Majored in Computer Science and Information Engineering | *2018/09 - 2022/06* |
| B.S. Minored in Economics | *2019/09 - 2022/06* |

## **Wor**king Experience

**Microsoft** — *Taipei, Taiwan*
Software/Machine Learning Engineering Intern — *2023/07 - PRESENT*
Skills: Natural Language Processing, Software Architecture Design

- Implement a hotfix pipeline to speed up the development process of the deep speller model.

**Appier** — *Taipei, Taiwan*
Machine Learning Scientist Intern — *2023/02 - 2023/06*
Skills: Machine Learning, Backend Development

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

## **Aca**demic 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*

## **Pro**ject

**Travelight**
Tour Recommendation System with an optimization route planner. — *Fall 2022*
Skills: Web Development

- 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%**.

**Dialogue State Tracking With Chit-chat**
Competition about Dialogue state tracking with seen and unseen domain. — *Spring 2021*
Skills: Natural Language Processing

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

## **Ski**lls

**Machine Learning, Unix-like operating System, Software Engineering, Web Development**

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