# Yu-Hsiang **Huang**

*Taipei, Taiwan*

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## Education

**National Taiwan University (NTU)** — *Taipei, Taiwan*

Advisor: Prof. Shou-De Lin

M.S. Majored in Computer Science and Information Engineering — *2022/09 - PRESENT*

**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*

## Working Experience

**Microsoft** — *Taipei, Taiwan*

Software/Machine Learning Engineering Intern — *2023/07 - PRESENT*

**Appier** — *Taipei, Taiwan*

Machine Learning Scientist Intern — *2023/02 - 2023/06*

- 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.

## 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*

## 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%**.

**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

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| **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 |