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Education

National Taiwan University (NTU)

Taipei, Taiwan

ADVISOR: PROF. SHOU-DE LIN

2022/09 - PRESENT

M.S. MAJORED IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

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

APPLIED SCIENTIST INTERN

2023/07 - 2024/06 (Expected)

- Introduced a hotfix pipeline that slashes data change time for the spelling model from 2 hours to less than 10 minutes.
- Enhanced model preprocessing with a regex override pipeline significantly accelerates deep speller model inference, achieving a speedup of over 100%.

Appier Taipei, Taiwan

MACHINE LEARNING SCIENTIST INTERN

2023/02 - 2023/06

- Developed a personalized recommendation model using Python and fastText framework to generate high-quality product embedding, resulting in a remarkable 10% increase in click-through rates compared to previous methods.
- Designed a GPT-based product tagging model that demonstrated an impressive 40% performance improvement compared to the
 previous tagging methods during annotation experiments.
- Enhanced the GPT-based tagging process by implementing multi-threading and backup mechanisms, resulting in a remarkable 2.5x speed boost.

Project

Travelight

SKILLS: JAVA SPRING BOOT, DEVOPS, BACKEND DEVELOPMENT

Fall 202

- Built our CI/CD pipeline using GitHub action and docker to speed up the delivery process and reduce the error rate.
- Implemented a multi-threading approach to achieve asynchronous requests, resulting in a speed-up of more than 50% for place searches.

Surrogate-Assisted Document Embedding Inversion Attack

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

- Developed a decoder that can invert document embeddings using an adversarial training framework, given limited query data.
- Our method outperformed 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

- Developed a voice assistant using chat-gpt that can handle multiple tasks.
- Leveraged prompting method that reduced the time required to develop a new skill from 2-3 days to less than 3 hours.

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.

Skills

Developer tools Git, WSL, Docker **Programming language** Python, C++, Java, C#

Frameworks and libraries Pytorch, Langchain, Transformers, Sklearn, Spring boot