

Yen-Hsiang Wang

Yen-Hsiang, Wang (Kenny)

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Education

National Chung Hsing University / Master of Computer Science

Sep. 2020 -- Sep. 2022, Taichung City, Taiwan

Research assistant at Natural Language Processing Lab, NCHU, chiefly focuses on Natural Language Generation (NLG), especially Question Generation (QG).

Thesis: [Cross-lingual Multi-documents Summarization based on MBART](#)

Teaching Assistant of Algorithm, Advanced Data Mining, and Information Retrieve.

Fu Jen Catholic University/ Bachelor of Computer Science and Information Engineering

Sep. 2016 -- Jun. 2020, New Taipei City, Taiwan

Engage in Industry-academia cooperation with Shin-Kong Hospital.

Experience

Inria, National Institute for Research in Digital Science and Technology/ Research Engineer Intern

Mar. 2022 -- Sep. 2022, Bordeaux, France (Remote)

Learning curiosity-driven Question Generation and evaluation with deep language models (towards educational technology applications). The project is hosted by Flowers team, Inria Bordeaux and collaborating with Microsoft Research Montreal.

Publication: [Selecting Better Samples from Pre-trained LLMs: A Case Study on Question Generation](#), [GPT-3-driven pedagogical agents for training children's curious question-asking skills](#).

Knowledge: GPT-3, Prompting, Question Answering, Question Generation.

Industrial Technology Research Institute/ Software Engineer Intern

July 2021 -- August 2021, Hsinchu, Taiwan

Leverage Question-Answering language models(based on Transformer) for judgment-related query with over 90% accuracy.

Developed a web application to help label data from legal judgment.

Technology Stack: MongoDB, FastAPI, React.js, and PyTorch.

Projects

PTT Search Engine | Vue.js, Flask, ElasticSearch, Docker, Trello

Oct. 2020 -- Jan. 2021

Built a search engine including all articles and commands crawled from popular boards on PTT(web forum).

Lab members were divided into three teams (Web Crawler, Server, and Full-Stack. I was in charge of Full-Stack) and adopted the Scrum workflow.

Maintaining a search engine and database using ElasticSearch, handling hundreds of millions of data.

Develop a Single Page Application and Back-end process (query).

Shared Decision Making Platform | ASP.net

Semester of 2019

Cooperated with Shin-Kong Hospital and built a web application using the MVC framework. (Graduate Project)

Improving doctors and patients' communication by medical record management and patient-questionnaire.

Technical Skills

Programming Language:

- **C/C++/Java:** Programming Fundamentals. Able to implement basic Data Structures and Algorithms. (Sorting, Graph Algorithms, Dynamic Programming, etc.)
- **Python:** Data processing, Training and inference Deep Learning Model, and Back-end framework
- **JavaScript:** Front-End engineering, comprehend ES7.

Toolchains:

- **PyTorch, PyTorch Lightning:** Dataset processing. Train,infer and evaluate language models from scratch. Enforcement Learning.
- **Flask, Django :** Implement the Back-End process of course assignment platform and building website for NLP application demo.
- **MySQL, MongoDB, ElasticSearch:** Database
- **Vue.JS:** Front-End framework.
- **Docker:** Composing our application into a docker image which enables collaborators to employ the service on Kubernetes.