Hsiang-Jen Li RN

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Education —	
National Taiwan University of Science and Technology Master's in Department of Computer Science and Information Engineering - GPA: 4.02/4.3 National Kaohsiung University of Science and Technology Bachelor's in Department of Money and Banking - GPA: 3.82/4.3	Taipei, Taiwan 2024 Kaohsiung, Taiwan 2022
Shanghai Commercial & Savings Bank - Digital Banking Department Internship in SCSB Digital Banking	2023.07 ~ 2023.08
National Kaohsiung University of Science and Technology Cross College Elite Tech Program - Data Science - Teaching assistant	2021.09 ~ 2022.01
Competition & Award	
Campus Fintech Innovation Challenge Taiwan Academy of Banking and Finance - Ranked as the 8th out of 187 teams	2022
Joint Exhibition on Artificial Intelligence and Neural Networks National Kaohsiung University of Science and Technology - Department of Electrical Engineering - Ranked as the 1st out of an estimated 30 teams	2022
Campus Achievement Exhibition Fintech Space - Competition's preferred choice	2020
Side Project	
NTUST LaTeX Template	2024.03 ~ now
 DIMG4MD A Python package for automatically download the image from the markdown file and save it to the local folder. 	2024.02 ~ 2024.02
Learn Julia - Learning Julia Programming Language with a series of scripts.	2024.01 ~ now
Awesome Metaheuristic and its Applications - A curated list of awesome metaheuristic and its applications resources. - Including the basic concepts of metaheuristic, the application of metaheuristic, like Graph Neural Network and Graph Database. - Also including the latest research papers about metaheuristic.	2024.01 ~ now
Awesome Complex System and Network Science - A curated list of awesome complex system and network science resources. - Including the basic concepts of complex system and network science, the application of complex system and network science, like Graph Neural Network and Graph Database. - Also including the latest research papers about complex system and network science.	2023.12 ~ now
 Evasion Attack in Machine Learning Trying to use evasion attack to attack the CNN-based maleware detection model. Need to add noise to the maleware sample to make the model misclassify the sample. 	2023.09 ~ 2023.12
 The dataset is collected by ourselves (Using Cuckoo Sandbox and VirusShare). 2023 IT home Ironman Challenge - AI and Data In this challenge, I had written 30 articles about Network Science and Graph Neural Network. Including the basic concepts of Network Science, the application of Network Science, like Graph Neural Network and Graph Database. 	2023.09 ~ 2023.10

2023.07 ~ 2023.08

- Also including the latest research papers about Graph Neural Network.

- The data will be stored in MongoDB and can be used for further analysis.

- Using Dynamic Web Scraping Packages (Selenium, Playwright etc.) to crawl social network data.

Web Scraping: Social Network Crawler

Graph-based: Keywords Recommendation System

- Applying Network Science field to build a keywords recommendation system.

Taiwan Famous Ecommerce: Find Identical Products

- Finding identical products from item's name is a quite challenging task.

- Using Regular-Expression and CKIP-transformer to extract keywords from item's name.
- And using dimension-reduction and cluster algorithms to find identical products.

2022.05 ~ 2022.06 Apriori J104

- An application for analyzing the skills required by the job market.
- The data is crawled from 104 job bank and stored in MongoDB.
- And the data will be processed by CKIP-transformer.
- Finally, using apyori algorithm to find the association rules between skills.

Financial Public Opinion Analysis

2022.03 ~ 2022.06

2023.05 ~ 2023.06

2022.11 ~ 2022.12

Recently

Future Plan

- Using Django to build a web application for analyzing financial public opinion.
- The data is crawled from Anue and the data will be stored in MongoDB.

Line-Bot: Stock Info 2020.10 ~ 2021.07

- A Line-Bot for getting the stock information.

Reasearch Interest -

Distributed Computing

Complex Systems and Network Science

Unlike grid-like data structures, complex systems are composed by nodes and edges, which are more

complicated for analysis and modeling.

Future Plan Metaheuristics

Metaheuristic is a bio-inspired algorithm that can be used to solve optimization problems.

Future Plan Privacy-Preserving Machine Learning

Skills

language: Python advanced, Julia beginner, SQL beginner, LaTeX beginner

website: FastAPI beginner, HTML beginner, CSS/SCSS beginner, Bootstrap beginner

tool: Git intermediate, Docker intermediate

CI/CD: Github Actions beginner, MLflow beginner platform: Ubuntu intermediate, Windows intermediate