Hsiang-Jen Li RN

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Education

National Taiwan University of Science and Technology *Taipei, Taiwan*
Master's in Department of Computer Science and Information Engineering **2024**
- GPA: 4.02/4.3

National Kaohsiung University of Science and Technology *Kaohsiung, Taiwan*
Bachelor's in Department of Money and Banking **2022**
- GPA: 3.82/4.3

Work Experience

Shanghai Commercial & Savings Bank - Digital Banking Department **2023.07 ~ 2023.08**
Internship in SCSB Digital Banking

Competition & Award

Campus Fintech Innovation Challenge **2022**
Taiwan Academy of Banking and Finance
- Ranked as the 8th out of 187 teams

Joint Exhibition on Artificial Intelligence and Neural Networks **2022**
National Kaohsiung University of Science and Technology - Department of Electrical Engineering
- Ranked as the 1st out of an estimated 30 teams

Campus Achievement Exhibition **2020**
Fintech Space
- Competition's preferred choice

Side Project

Learn Julia **2024.01 ~ now**
- Learning Julia Programming Language with a series of scripts.

Awesome Metaheuristic and its Applications **2024.01 ~ now**
- 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.

Awesome Complex System and Network Science **2023.12 ~ now**
- 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.

Evasion Attack in Machine Learning **2023.09 ~ 2023.12**
- 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.
- The dataset is collected by ourselves (Using Cuckoo Sandbox and VirusShare).

2023 IT home Ironman Challenge - AI and Data **2023.09 ~ 2023.10**
- 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.
- Also including the latest research papers about Graph Neural Network.

Web Scraping : Social Network Crawler **2023.07 ~ 2023.08**
- Using Dynamic Web Scraping Packages (Selenium, Playwright etc.) to crawl social network data.
- The data will be stored in MongoDB and can be used for further analysis.

Graph-based : Keywords Recommendation System **2023.05 ~ 2023.06**
- Applying Network Science field to build a keywords recommendation system.

Taiwan Famous Ecommerce : Find Identical Products **2022.11 ~ 2022.12**
- 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.

Apriori J104 **2022.05 ~ 2022.06**
- 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**
- 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

Complex Systems and Network Science **Recently**

Unlike grid-like data structures, complex systems are composed by nodes and edges, which are more complicated for analysis and modeling.

Metaheuristics **Future Plan**

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

Distributed Computing **Future Plan**

Privacy-Preserving Machine Learning **Future Plan**

Skill

language : python advanced , julia beginner , sql beginner
website : fastapi beginner , html beginner , bootstrap beginner
tool : git intermediate , docker intermediate
platform : ubuntu intermediate , windows intermediate