Pin-AN, LEE

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github.com/PinAntw | linkedin.com/in/pinanlee

EDUCATION

Master of Information Management (IM), National Taiwan University 2024 –

Bachelor of Industrial and Information Management (IIM), National Cheng Kung University 2020 – 2024

PROFESSIONAL SUMMARY

Currently a first-year Master's student at National Taiwan University's Information Management program, I have demonstrated a strong ability to **learn quickly and adapt to new challenges.** During my college undergraduate years, I actively explored courses across different disciplines, equipping myself with a diverse set of tools and skills, such as R language and heuristic algorithms. My college undergraduate research focused on **algorithm design** and **simulator development**, where I gained hands-on experience in computational problem-solving and system simulation. Additionally, I frequently took on leadership roles in team projects, honing my ability to coordinate and drive teams toward success. Now, for my master's thesis, I am focusing on dialogue system research, aiming to enhance conversational AI models. I am deeply passionate about **software development, data analysis, and artificial intelligence,** constantly seeking to expand my knowledge and apply innovative solutions to real-world problems. Known for my friendly personality, optimism, and proactive mindset, I thrive in collaborative environments and continuously seek opportunities for growth.

SKILLS

Programming Languages: Python, C++

Statistic Tools: R, STATA

Frameworks & Libraries: React.js, Next.js, Tailwind CSS, TensorFlow, libsvm, PyQt

Technologies: Google GCP, AWS cloud, Docker, PostgreSQL, Optimization Algorithm, Excel VBA

AWARDS AND ACHIEVEMENTS

- 2024 ORSTW - Best paper awards
- TOEIC 895
- Pershing Techathon - Honorable Menton

PROJECTS

Firefighter Mobility Optimization with Fuel Management **2022/9 – 2023/9**

- Developed an interactive decision support simulator using **PyQt**, enabling real-time visualization of firefighting strategies.
- Implemented **genetic algorithms** to optimize firefighter movement while considering fire spread dynamics, node values, and resource constraints.

#PyQt package #Heuristic algorithm

MLB Team Win-Loss Prediction – NTU Hsuan-Tien Lin's Machine Learning Project **2024/10 – 2024/12**

- Applied MICE and KNN imputation for handling missing numerical and categorical data.
- Implemented label encoding, one-hot encoding, and autoencoder-based encoding for categorical variables.
- Conducted feature selection using Random Forest, Lasso, and Chi-squared tests.
- Built predictive models with Logistic Regression, SVM, GBDT, and MLP, optimizing team win-loss predictions.

#Machine Learning #Data Analysis

OTHERS

- **Medium Blog:** https://medium.com/@pinanleeintw/林軒田機器學習筆記-機器學習技法一-svm-linear-svm-6de14bf7926a