Chunyen **Pan**

https://jimpan0612.github.io

Contact

@ jimpan0612@gmail.com

Visit my GitHub

@Chunyen Pan

Visit my portfolio

About me

Hi, I'm Chun-Yen Pan, a passionate Data Analyst with a strong background in social data analysis and research. I hold a Master's degree in Social Data Analytics and Research from The University of Texas at Dallas (UTD) and have expertise in R, Python, and SQL. I have worked on projects involving large-scale data analysis, interactive dashboards, predictive analytics, and international relations research. Currently, I am self-learning ComfyUI and PyTorch, focusing on AI generative techniques and deep learning. I am actively seeking opportunities to apply my skills in data-driven roles, contribute to impactful projects, and gain hands-on experience in real-world applications.

Skills

Data Visualization
Microsoft Office
PyTorch
ComfyUI
ArcGIS
Machine Learning
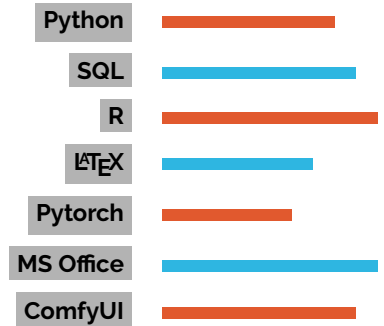Program Evaluation
International Law
Political Science

Interests

Swimming / Hiking /
News reading /
Japanese Mahjong /
Board Games /

Degrees

2024 — **Master of Science - MS**
SOCIAL DATA ANALYTICS AND RESEARCH · The University of Texas at Dallas 🏛

2021 — **Bachelor's degree**
MAJOR IN POLITICAL SCIENCE AND MINOR IN BIG DATA ANALYSIS · Soochow University, Taiwan 🏛

Programming, Tools

- Python
- SQL
- R
- LaTeX
- Pytorch
- MS Office
- ComfyUI

Class Project Experience

Data Visualization | **Data Analysis and Interactive Dashboard**
PYTHON · Plotly, Dash
Developed an interactive dashboard using Python to analyze and visualize financial data from TSMC and Samsung, as well as geopolitical events in East Asia.

Business Application:
Provided management with a clear visualization of market trends and competitive landscapes, enabling timely and accurate decision-making to drive strategy formulation and business development.

Data Collection | **Network Structure of the Digital Advertising Market**
PYTHON · Pandas, Neo4j, bs4, Plotly
Built a graph database using data scraped from ads.txt files to analyze the structure of the online advertising market (AdTech) and map relationships between publishers and platforms.

Business Application:
Helped businesses optimize advertising efficiency and improve the structure of advertising networks to enhance ad performance and market reach.

Machine Learning | **International Relations Prediction**
R · TensorFlow, Keras, Random Forest
Applied machine learning techniques (e.g., Random Forest and Deep Learning) to predict international relations by integrating socioeconomic factors and event data to analyze patterns of interaction and association between countries.

Business Application:
Assisted businesses in evaluating international market risks and opportunities, formulating cross-border operational strategies, and supporting geopolitical risk analysis to enhance decision-making success rates.

SQL Database | **Chronic Disease Prescription Analysis for Major Hospitals in Taiwan**
SQL, R · PostgreSQL, DB Browser for SQLite, Shinyapps.io
Utilized SQL and database technologies to analyze the prescription distribution of chronic diseases in major medical centers in Taiwan, assisting healthcare institutions in optimizing resource allocation.

Business Application:
Built an interactive Shiny App platform to integrate patient data, compare with other hospitals, identify resource utilization differences, and reduce medical resource waste.

LANGUAGES

Mandarin	C2	● ● ● ●
English	C1	● ● ● ●
Taiwanese	B1	● ● ● ●

EXPERIENCE

2024   Supported events for the Taiwan Research Society at UT Dallas, assisting scholars and speakers.

2024   Volunteer at Tzu Chi Dallas Branch, managing charity sales promotion, data analysis, and event coordination. Participated in nursing home visits, recycling, and cultural education activities.

PERSONAL TRAITS

Active Learner | EAGER TO ACQUIRE AND APPLY NEW SKILLS EFFICIENTLY
Self-learned PyTorch and ComfyUI to explore generative AI applications and enhanced Excel expertise for data processing. Achieved a GPA of 3.5 during my Master's program, building a strong foundation in data analysis and research.

Continuously applying learning to optimize decision-making, reduce data processing time, and improve analytical accuracy.

Teamwork | COLLABORATIVE AND RESULTS-DRIVEN TEAM PLAYER
In a graduate project, handled data cleaning and modeling while supporting teammates with technical challenges. Adjusted plans to prioritize core tasks and ensure successful project delivery under pressure.

Demonstrated coordination and execution skills to achieve team goals efficiently.

Communication Skills | SKILLED IN EFFECTIVE CROSS-DEPARTMENTAL COMMUNICATION
Led discussions with department heads and stakeholders for the Tzu Chi Cultural School evaluation, ensuring accurate data collection and clear reporting.

Enhanced data integration and reporting accuracy for diverse audiences.

Problem Solving | PROFICIENT IN TACKLING TECHNICAL AND ANALYTICAL CHALLENGES
Resolved Mac GPU compatibility for generative AI tools by adjusting model parameters. Applied structured workflows for data analysis, ensuring accuracy and delivering insightful reports.

Showcased systematic problem-solving and end-to-end task management.