Chunyen **Pan**

https://github.com/Jimpan0612

About me

Hi, I'm Chun-Yen Pan, a passionate Data Analyst with a knack for Social Data Analytics and Research. I have a background in Political Science and Big Data Analysis. Throughout my academic journey, I have developed a strong foundation in data analysis (R, Python, SQL) and its application in social settings. My goal is to develop visualizations that can enhance the impact of research outcomes.

Skills

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

Interests

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

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MyWebsite

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

python
SQL
R
LaTeX
pytorch

Course Projects

Visualization — **Data Analysis and Visualization Dashboard**
Python · Plotly, Dash
Developed a Python-based dashboard using Plotly and Dash to analyze and visualize financial data from TSMC and Samsung, integrating geopolitical event data for East Asia.

Data Collection — **Network Structure of the Digital Advertising Marketplace**
Python · Pandas, Neo4j, bs4, Plotly
This project analyzed the online advertising (Adtech) marketplace by creating a graph database using data scraped from ads.txt files. The analysis mapped relationships between publishers and platforms, providing insights into the network structure and supporting discussions on digital platform regulations.

Machine Learning — **Interstate Affinity Prediction**
R · TensorFlow, Keras, Random Forest
This study used machine learning to predict interstate relationships, with the U.S. as a reference. An aggregate affinity score from event data and various socioeconomic factors served as predictive variables. Models including random forest and deep learning were evaluated for accuracy in predicting interstate affinity.

SQL — **Analysis of Chronic Disease Prescriptions in Major Medical Centers in Taiwan**
SQL, R · PostgreSQL, DB Browser for SQLite, Shinyapps.io
This project involved analyzing chronic disease prescriptions in major medical centers in Taiwan using SQL and database management techniques. The goal was to understand the distribution of prescriptions across different diseases and hospitals.

Languages

Mandarin	C2
English	C1
Taiwanese	B1

Experience

2024 Responsible for assisting in hosting scholars and speakers at Taiwan Research Academy in UTD.

2022 Volunteer in Tzu Chi and conduct activities such as nursing home visits, resource recycling, and humanistic education.

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