JERRY WU

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EDUCATION

Master of Science in Business Analytics, Rady School of Management   12/2025
University of California, San Diego, CA
- Relevant Courses: SQL + ETL, AI-Assisted Math and Programming, Business Analytics, Business Intelligence Systems (Tableau), Web/Data Mining/Recommender Systems, Scalable Analytics, Customer Analytics and AI

Bachelor of Science, Management Science - Minor in Data Science   06/2024
University of California, San Diego, CA
- Awards: Two-time Big West Spring All-Academic, Big West Commissioner's Honor Roll, Provost Honors
- Relevant Courses: Data Structures and Algorithms, Data Management, Probabilistic Modeling and Machine Learning, Econometrics

PROJECTS

Predicting Fake Job Postings (Python), Web Mining and Recommender Systems, UCSD   12/2024
- Processed a dataset of 17,880 job postings by cleaning data, handling missing values, engineering features, and creating visualizations to enhance data understanding and support feature analysis
- Designed and implemented a machine learning model to detect fake job postings, communicating technical insights by deploying accessible NLP techniques TF-IDF and Bag-of-Words, achieving an F1-score of 0.824
- Evaluated feature combinations and models (Logistic Regression, SGD, Random Forest, XGBoost) evaluating the Area Under the Curve and F1-score, selecting XGBoost for its best performance

Food Insecurity Analysis (Tableau), Business Intelligence Systems, UCSD   12/2024
- Developed 3 interactive dashboards into a Tableau Story to visualize food insecurity trends across the U.S.
- Cleaned and preprocessed 2 datasets using Tableau Prep Builder for seamless integration and analysis.
- Created geospatial maps and statistical visualizations to highlight key locations and contributing factors to food insecurity.

ELT Project (Snowflake, PostgreSQL, and Python), SQL + ETL, UCSD   09/2024
- Managed design and development of an automated ELT pipeline to extract, load, and transform big data from CSV, XML, PostgreSQL, and Snowflake Marketplace into Snowflake for data storage and analysis
- Created utility functions to map data types, automate SQL table creation and bulk data loading, and improve queries and performance with Snowflake stages
- Integrated purchase and supplier data with weather metrics using optimized queries, providing key insights and reducing manual data processing and troubleshooting time by 30%

Power Outage Analysis (Python), Practice and Application of Data Science, UCSD   05/2023
- Conducted design of hypothesis testing model on variables such as outage month and climate region, leveraging p-values to assess significance and guide model adjustments
- Performed data cleaning and preprocessing to ensure dataset accuracy, using imputation techniques to address missing data, resulting in a complete and reliable dataset for analysis
- Applied statistical methods and data visualization to identify patterns, showing the Northeast region and summer months had the highest outage frequency, offering actionable insights through data trends

LEADERSHIP EXPERIENCE

Member, UCSD Tritons Men's Golf, San Diego, CA   06/2024
- Recruited as a Division 1 Student-Athlete with a full scholarship; held lowest team average score (74.7) during 2020- 2021 season
- Balanced academic and athletic responsibilities while contributing to team tournament results
- Developed communication, collaboration, and leadership skills through active participation and motivating teammates throughout competition and practice

SPECIALIZED SKILLS

- **Languages/Coding:** Python (Pandas, NumPy, SciPy, Scikit-learn, Matplotlib), SQL, ETL, Hypothesis Testing, A/B Testing, Regression, Java, R, MATLAB, Tableau, Snowflake, HTML, JavaScript (Basic), Hadoop, Spark
- **Operating System:** Microsoft Windows (Excel, Outlook, Word, PowerPoint)
- **Tools:** JupyterLab, Visual Studio Code, RStudio, IntelliJ, Terminal, Anaconda Prompt, Git, Microsoft Office, AWS
- **Spoken Languages:** English, Chinese (Mandarin)