Ruo-Yi Evelyn Liang

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Summary

Data Science Meets Product Strategy—Turning Analytics into Action

Education

University of California, Berkeley Berkeley, CA

Master of Analytics, IEOR, College of Engineering *Aug 2025 – Present*

GPA: 3.7/4.0

center$_{ullet}$ Courses: Machine Learning, Optimization, Design of Databases, Risk Modeling, Transportation/Supply Chain and Logistics Management

National Taiwan University (NTU) Taipei, Taiwan

Bachelor of Business Administration in Technology Management *June 2024*

GPA: 3.8/4.0

center$_{ullet}$ Courses: Data Analysis and Machine Learning with Python, Manufacturing Data Science, Marketing Analytics, Human Computer Interaction and User Studies, Project Management

Experience

Data Analysis Intern (Product Team) June 2023 – Dec 2023

Shopee Pte. Ltd. *Taipei, Taiwan*

center$_{ullet}$ Monitored operational performance in delivery channel and saved __PCT_PLACEHOLDER_0__ costs by creating 10+ dashboards and reports using TrinoSQL from an 8 million+ transaction dataset

center$_{ullet}$ Increased __PCT_PLACEHOLDER_0__ in monthly sales through A/B testing on page design using the CVR metric and applied statistical analysis

center$_{ullet}$ Conducted data-driven and interview-based analyses for business and product recommendations, collaborating cross-functionally with stakeholders across 4 departments

center$_{ullet}$ Developed an RNN-based machine learning model, automating employee classification and saving 20+ hours of workload weekly

Research Assistant Dec 2022 – July 2023

Human-Computer Interaction Lab in National Taiwan University *Taipei, Taiwan*

center$_{ullet}$ Conducted Text-Based Sentiment Analysis by transforming qualitative insights from unstructured data into quantitative data

center$_{ullet}$ Analyse the correlation between Autism Spectrum Condition and algorithmic bias using Lavaan in R

center$_{ullet}$ Co-authored a thesis on data credibility and correlation, presented findings in academic discussions

Projects

Capstone - 2nd Prize in Google Case Competition: Dynamic Staffing Optimization space-7pt

center$_{ullet}$ Achieved a __PCT_PLACEHOLDER_0__ profit boost by engineering a linear programming optimization model that dynamically adjusted agent staffing in real-time

Predictive Modeling for Aviation Maintenance Optimization | *EDA, SelectKBest, PCA, Random Forest, XGBoost* space-7pt

center$_{ullet}$ Processed and analyzed 22 million records, narrowing down to 330,000 samples, to develop a predictive model optimizing aviation maintenance, reducing costs, preventing failures, and enhancing safety

Public Bicycle Usage Analysis and Machine Learning Prediction | *Gradient Boosting Regressor, time series analysis, Be* space-7pt

center$_{ullet}$ Developed an ML model (Gradient Boosting Regressor) with __PCT_PLACEHOLDER_0__ R-squared accuracy to predict bicycle availability at stations using time series analysis

Technical Skills

Data Analysis: NumPy, SciPy, TensorFlow, PyTorch, Pandas, Matplotlib, BeautifulSoup
Database: MySQL, Trino SQL, MongoDB
Programming languages: Python, C/C++, SQL, R, C#
Tools: Tableau, PowerBI, Github, Spark, AWS, Microsoft Office, MATLAB

Leadership & Activities

Event General Coordinator of Graduates' Catered Banquet Apr 2023 – May 2023

center$_{ullet}$ Led a team of 100+ across 7 departments for events (dance, singing, keynote speech, etc.) catering to 3,000+ students at Royal Palm Blvd

center$_{ullet}$ Coordinated with 12 sponsors including Hua Nan Commercial Bank, Hotai Motor Co, BABI International Corp.