Chin-Ya (Chelsea) Yueh

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EDUCATION & CERTIFICATIONS

DePaul University *March 2025*
Master of Science in Information Systems with a concentration in Data Analytics | GPA: 3.9/4.0 Chicago, IL
Relevant Courses: Data Analysis and Regression, Health Data Science, Data Warehousing, Python Programming
Certifications: Fundamentals of Visualization with Tableau / Accenture Virtual Experience Program on Forage
Activities: Participated in the Global International Students Organization to assist incoming students in orientation

PROFESSIONAL EXPERIENCE

DigWise Technology LTD. *Fall 2024*
Data Science Intern Hsinchu, Taiwan
- Preprocessed and cleaned chip probe and wafer acceptance datasets to ensure data quality for manufacturing yield and performance analysis
- Created visualizations using matplotlib and seaborn to uncover key performance patterns to refine bin assignments
- Achieved a 97% binning success rate (29/30 bins) as measured using leakage current standard deviation (≤ 0.3) by applying K-Means, DBSCAN, and HDBSCAN for clustering
- Conducted comparative analysis of supervised and unsupervised algorithms, evaluating runtime and accuracy to select the optimal approach for manufacturing yield analysis

Alpha Networks Inc. *2021 – 2022*
Sales Specialist Hsinchu, Taiwan
- Collaborated with the business analytics team to analyze sales reports for 7 key customers, refining pricing strategies that drove 10% revenue growth and 5% cost reduction through data-driven adjustments
- Extracted and cleaned sales data from SAP using Vlookup and Pivot Tables, ensuring accurate royalty fee calculations
- Partnered with sales, finance, and supply chain teams to align sales data definitions and improve financial reporting accuracy and consistency across functions

PROJECTS

Python – Mental Health Risk Analysis in University Students *Winter 2025*
- Built an interactive dashboard in Tableau to visualize key trends across different demographics, providing actionable insights and recommending interventions for stakeholders to guide data-driven decisions
- Conducted feature importance modeling with XGBoost to enhance the dashboard's predictive insights into student mental health trends, identifying critical factors impacting student well-being

Python – H&M Customer Behavior Analysis and Personalized Fashion Recommendations *Fall 2024*
- Processed and cleaned 28M+ transactions to ensure data consistency and accuracy for customer behavior analysis
- Applied RFM analysis to segment customers into actionable groups, providing insights into customer purchasing behavior and loyalty patterns

SAP Datasphere – Data Warehousing Solution for Supply Chain Optimization *Spring 2024*
- Designed dimensional ER models and implemented SQL-based ETL to consolidate inventory, procurement, and supplier data into a centralized warehouse
- Built an interactive dashboard in SAP Analytics Cloud to help the procurement team monitor 5 key supply chain metrics, supporting data-driven purchasing decisions

R – Sports Performance Analytics *Winter 2024*
- Conducted thorough data processing through variable transformation, multicollinearity checking, and residual analysis
- Applied multiple regression techniques and performed feature selection using stepwise regression
- Performed cross-validation (test-train method) across all player positions, achieving consistent model performance with correlation coefficients exceeding 0.9 in each regression model

TECHNICAL SKILLS

Programming Languages: Python(Pandas, NumPy, Matplotlib, Seaborn), SQL, R
Technologies: Excel, Tableau, Power BI, SAP Datasphere, SAP Analytics Cloud