Yiyun (Eloise) Xu

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EXECUTIVE SUMMARY

Analyst with 2+ years of experience in data science and graduate student specializing in Information Systems. Expertise in transforming complex datasets into insightful visualizations: notable achievements include optimizing financial data accuracy and efficiency using SQL at a leading accounting firm, resulting in error-free financial reports. Proficient in Python, SQL, Power BI, and Tableau.

EDUCATION

University of Washington – Michael G. Foster School of Business   **Seattle, WA**
Master of Science in Information Systems | GPA:3.70   March 2023 - June 2024

University of Hawaii at Manoa   **Honolulu, HI**
Bachelor of Business Admission in Accounting and Finance | GPA:3.82   August 2016 - December 2021

SKILLS

- Programming: Python, Pandas, NumPy, Matplotlib, Seaborn, MySQL, PostgreSQL
- Analytical Tools: Machine Learning, Statistics, Snowflake, AWS, Microsoft Azure DB, GitHub
- Data Visualization: Power BI, Tableau, Advanced Excel: Solver, TreePlan, Oracle Crystal Balls

WORK EXPERIENCE

University of Washington   **Seattle, Washington**
Financial Data Analyst Intern   March 2023 – Present
- Achieved a 20% reduction in data transformation time compared to manual methods for the UW Food & Housing finance department by preprocessing a 20,000+ rows dataset including handling missing value and changing data type by utilizing Python Pandas Library.
- Enhanced the existing linear regression estimation model performance by 15% through advanced Excel function (VLOOKUP, IF statements, SUMPRODUCT, Pivot Table) by verifying input data and detecting new indicators.
- Conducted financial analysis that compared accounts money flow exceeding $500,000 between the current year and the prior year by utilizing a cross-functional approach to data handling and presented comprehensive analysis reports to KPMG external auditors.

KMH LLP RSM US Alliance (Top 5 Public Accounting Firm in Hawaii)   **Honolulu, Hawaii**
Assurance Data Analyst   August 2021 – November 2022
- Achieved a 25% operational efficiency enhancement and automated 8 hours human-operated process by utilizing SQL techniques (e.g., CASE WHEN, JOIN, UNION, CTEs, Window Features, Aggregate) to consolidate accounts into respective financial sections.
- Managed cleansing of outlier and null value data within the data lake by utilizing SQL techniques (e.g., TRIM, CONCAT, EXTRACT, COALESCE), to establish an interactive data dashboard in Tableau for clients' monitoring and analyzing.
- Established a linear regression model to estimate financial recovery and incorporated dummy variables to verify the impact of COVID-19 towards the local hotel company, carrying out a comprehensive report on the recovery analysis for the upcoming three years.
- Identified irregular financial transaction patterns using MySQL, IDEAS, and Excel-Solver for data analysis and integrated statistical analysis, leading to the prevention of fraudulent activities and annual savings of $20,000 for a local retail company.

Verity Certified Public Accountants   **Honolulu, Hawaii**
Audit Intern   July 2020 – August 2021
- Performed over 35 financial audits and utilized Tableau to analyze and visualize the abnormal fluctuation and reported to clients.
- Provided valuable recommendations to enhance access control, cybersecurity measures, and risk management through comprehensive evaluation and improved the integrity of financial data.

PROJECTS

Google Play Store Apps and Reviews Data Analysis   **August 2023**
Google Play Store │ Tools: Python, Matplotlib
- Developed a Python data analysis script using Matplotlib to generate visualizations, revealing that the 'Family' category held a dominant market share of 30% among active applications.
- Conducted an average rating of 4.17 across various categories and presented findings through a histogram plot, showcasing the predominance of highly rated apps (above 4.17) and a left-skewed distribution.
- Conducted natural language processing including sentiment analysis to quantify 2000+ reviews by sentiment polarity, comparing different groups of users, generating insights about existing operation strategy through boxplot.

Analysis of Electric Vehicle Adoption in Washington State   **May 2023**
Data Analysis on Electric Vehicle   │ Tools: MySQL, Tableau, Excel
- Leveraged SQL to perform in-depth time series analysis and visualized electric vehicle adoption trends by line charts in Tableau.
- Utilized RANK () OVER (PARTITION BY) function for analysis, revealing Tesla Model3 is the most popular EV through pie chart.
- Utilized data aggregation, subqueries, arithmetic calculations in SQL to reveal 62% owned Battery EVs and 38% owned hybrid EVs.