

Leon Ye

Anaheim, CA •rye5354@yahoo.com •(714) 812-4487

Personal Summary

- Passionate about mathematics and fascinated by the stories data can reveal. Proficient in using SQL and Python for data analysis, with a keen interest in uncovering insights from complex datasets and making data-driven predictions. Eager to explore and analyze data to drive informed decision-making and innovation.

Work Experience

Assistance Manager, 99 Ranch Market

May 2020 - DEC 2021

- **Analyzed** order data to identify patterns and inefficiencies in the order processing workflow, leading to a 20% reduction in processing time.
- **Generated** weekly and monthly reports summarizing **statistical analyses** of customer feedback, which were used by senior management to make informed decisions.
- **Developed** and implemented ETL processes to streamline product ordering and manage customer orders, reducing errors by 15% and improving order fulfillment times by 25%.
- **Assisted** in managing and optimizing inventory levels, resulting in a 10% increase in store sales by ensuring optimal stock availability and reducing stock-outs.

Projects

E-Commerce Simulation

Dec 2023 - March 2024

- **Architected** and deployed an optimized relational **database structure** through an efficient ER diagram design, guaranteeing data integrity and aligning with all system specifications; enhanced data retrieval speed by 35% and minimized redundancy.
- **Optimized** SQL queries by analyzing and refactoring code, resulting in a 25% improvement in query performance.
- **Implemented data ETL and cleaning** processes in SQL to ensure data integrity and consistency across millions of records gathered from diverse formats and systems.
- **Conducted** exploratory data analysis to uncover customer behavior patterns and provide data-driven recommendations for product recommendations and targeted marketing campaigns.

Numerical Analysis Modeling

Feb 2024

- **Predict** solutions to Ordinary Differential Equations (ODEs) with an accuracy of up to 20 decimal places, enabling highly precise modeling and analysis of complex systems.

Investigating Netflix Movies

April 2024

- **Dived** into a dataset containing information about 5,725 movies available on Netflix to build an insightful **data visualization** using Python

Lossless Data Compression and Reduction Research

Spring 2023

- **Collaborated** with research team members and conducted independent analysis to develop and apply mathematical models for 100% lossless data compression and reduction, ensuring data integrity and optimizing data processing efficiency.

Education

University of California, Riverside.

Riverside, CA

Bachelor of Science, Computational Mathematics.

winter 2022 - winter 2024

Relevant Coursework: Numerical analysis, Prob & math statistic, Linear algebra, Stastic, Optimization, Database management systems, Exploratory Data Analysis in SQL

Skills

Technical: C++, PostgreSQL, Python, Tableau, PowerBI, Microsoft Office

Language: English, Chinese

Certifications: Data Analyst Associate Certificate