Hilary Lin

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EDUCATION

University of California Los Angeles, Expected Graduation Date Spring 2026

B.S Statistics and Data Science, Minor in Digital Humanities

Relevant Coursework: Data Structure in C++ , Data Science with Python, Statistical Programming with R, Probability, Mathematical Statistics, Data Analysis and Regression, Computational Statistics with R, Machine Learning,Tableau,SQL,Monte Carlo,SAS

WORK EXPERIENCE

Data Analyst Intern , Alameda County Transportation Commission June 2024 - August 2024

- Developed interactive Power BI dashboards and advanced Excel models to support decision-making while visualizing and enhancing reporting on transportation systems, funding allocation, and project performance.
- Contributed to updating the Comprehensive Investment Plan by analyzing project data, drafting funding request proposals, and preparing technical memoranda for cross-departmental collaboration.
- Conducted in-depth analysis of real-time FasTrak lane data to uncover traffic trends, identify sensor issues, and propose data-driven solutions for improving lane efficiency.

Peer Tutor, Skyline College June 2022- May 2024

- Contributed to class activities and discussions, and supported students' understanding with in-class activities and to help identify and connect additional resources for success. Supported over 200 group tutoring sessions.
- Supported students in Statistics and Calculus courses by leading workshops and providing one-on-one assistance.
- Collaborated with faculty and fellow TAs to contribute to a positive learning environment, fostering academic success among peers.

Student Data Analyst , Associate student of Skyline College August 2023 - May 2024

- Collected and organized feedback from over 500 students using Excel and survey tools, compiling results into clear data summaries to support campus decision making.
- Analyzed engagement trends and student data in Python (Pandas, Matplotlib) to identify key priorities and present evidence based recommendations during committee meetings.
- Collaborated with faculty and administrative teams to translate data insights into actionable plans, contributing to improved student services and campus initiatives.

Kumon Math and Reading Center of Serremonte February 2024 - May 2024

- Assisted students with homework assignments and guided them through Kumon worksheets.
- Developed strong interpersonal and communication skills through interaction and monitoring the students.
- Communicated with parents to discuss their child's development and provided constructive feedback to support their learning.

RELEVANT ACADEMIC EXPERIENCE

Netflix Trend Evolution, Honors Transfer Program(HTP) , Skyline College August 2023

Researched Netflix's raw data in reference to audiences' preferences.

- Processed and cleaned Netflix's raw audience data using Python libraries like Pandas and Data8, uncovering trends in viewing habits, such as the growing popularity of original content and non-English programming.
- Conducted in-depth analysis to explore shifts in genre preferences and regional audience behavior, identifying key drivers behind increased engagement and retention.
- Designed compelling visualizations with Python's Matplotlib and Seaborn libraries, showcasing insights like the rise of binge-worthy series and the influence of mobile-friendly content on viewership patterns.

SF Muni Rider Usage Analysis January 2024

- Analyzed SF Muni ridership data using Python to identify trends in ridership before and after the COVID-19 pandemic.
- Identified a significant decline in ridership starting in 2020, with recovery patterns differing across routes, showing slower recovery on high-density urban routes.

- Highlighted trends such as increased use of off-peak hours and shifts in routes with more essential workers. Developed recommendations for adjusting schedules and improving service to boost ridership post-pandemic.

NBA Data Analysis January 2025

- Collected and cleaned NBA game and player statistics for exploratory analysis.
- Used Python (Pandas, Matplotlib, Seaborn) to identify performance trends and visualize player comparisons.
- Communicated findings through clear visualizations highlighting factors that impact team success.

R Package Development March 2025

- Built a custom R package implementing statistical functions and data analysis tools.
- Wrote reusable code for probability distributions, simulations, and regression methods.
- Documented functions with examples to ensure clarity and ease of use for others.

Market & Financial Analysis, Reformation Acquisition April 2025

- Leveraged industry datasets (McKinsey, Bain, Deloitte) to quantify 6% annual retail footprint growth and 80% digital purchase influence, identifying expansion drivers in luxury markets.
- Built a 10 year financial forecast model projecting $60 $80M annual EBIT increase and a 1.4 year top line payback on a $514.5M investment, validating acquisition profitability.
- Performed sensitivity and risk analyses on macroeconomic, cultural, and ESG factors; recommended data-driven integration programs to optimize ROI and preserve brand equity.

Music & Memory Experiment May 2025

- Designed an experiment to test how different types of music influence short-term memory.
- Collected and analyzed participant data using ANOVA and mixed-model approaches.
- Ensured reliable results by applying sample size calculations and controlling for variability.

Stress Detection on Reddit May 2025

- Collected and processed Reddit posts to analyze stress related content.
- Applied supervised models (SVM, Random Forest) and unsupervised techniques (cosine similarity, clustering) to classify and compare communities.
- Evaluated model performance and visualized findings, highlighting patterns in stress expression across online discussions.

Airline Safety Project June 2025

- Cleaned and structured airline safety data (1985 - 2014), improving data accuracy and usability for analysis.
- Developed interactive Tableau dashboards and maps that revealed safety trends and highlighted post 9/11 policy impacts.
- Published a WordPress site integrating visuals and narrative, making complex findings accessible to a broader audience.

SKILLS

- **Technical Skills** : Proficient in using **R (GGplot2)** ,**Python (Pandas, Numpy, Matplotlib, Seaborn**), **Machine Learning (classification, regression, clustering), SQL, Tableau (dashboards & data storytelling)**
- **Non Technical Skills** : Public Speaking and Presentation, Teamwork collaboration, Active Listening