

Lior Levy Meruk

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Education

Statistics and Data Science B.S. | University of California, Los Angeles (UCLA) | June 2025

- GPA: 3.77

Technical Skills

Statistical Tools: R, Python, C++, SQL, Tableau, Microsoft Office applications

Relevant Techniques: Data Cleaning, Regression Modeling, Hypothesis Testing, Text Mining, Data Visualization, Statistical Consulting

Projects

English Placement Score Analysis | UCLA | January 2025 – March 2025

- Consulted with a client to analyze 1,000+ student records and optimize the English Placement process at UCLA
- Built a random forest classification model in R, achieving 87.4% accuracy and revealing significant variables in our study
- Delivered insights showing URM status and survey scores are significant to Placements, improving testing strategies at UCLA

Comparing Musical Lyrics Over Time | UCLA | January 2025 – March 2025

- Used text mining techniques in R to clean and investigate song lyrics
- Applied term frequencies, bigrams, sentiment analysis, LDA (Latent Dirichlet Allocation), and random forest to analyze the evolution of popular lyrics over time
- Discovered cultural shifts and trends

NBA Game Outcome Prediction Model | UCLA | September 2024 – December 2024

- Processed 100+ games' historical data to engineer 9 new features based on the existing 24 predictors to model team performance
- Applied Lasso Regression, VIF and correlations for feature selection in Python
- Compared predictive models (Logistic Regression, LDA, KNN, SVM, Random Forest, Gradient Boosting) to predict game outcomes, achieving 66.3% accuracy using KNN

Experience

Teacher | Sinai Temple | August 2023 – Present

- Lead classroom of students through lessons of Hebrew language and Jewish religion
- Communicate with additional staff and parents to accomplish curriculum and behavioral goals

Youth Group Coordinator & Office Assistant | Congregation B'nai Shalom | September 2022 – July 2023

- Built, managed, and implemented events year-round, including budget and advertising
- Employed Microsoft Office tools to track event attendance, detecting trends and recalibrating accordingly to achieve maximum participation
- Used Adobe applications to create email featuring the Congregation news to keep members updated and community engaged, growing our engagement and event attendance significantly
- Tracked student data using Microsoft Excel and manipulated sheets for different purposes

STEM Tutor | OnTrack Learning | March 2022 – June 2023

- Tutored 30+ students grades K-12 in all subjects, mainly mathematics
- Improved students' understanding of mathematical concepts through creative explanations and activities, resulting in noticeable raise of grades