

MARY MCSWEENEY

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EDUCATION

University of California, Los Angeles (UCLA), Los Angeles, CA

September 2023 – June 2025

B.S. Statistics & Data Science

- GPA: 3.90 | Dean's Honors (Fall 2023, Spring 2024, Spring 2025)
- Relevant Coursework: Probability, Regression Analysis, Linear Models, Experimental Design, Data Mining, Computational Statistics, Text Mining, Databases, Python for Data Science

Diablo Valley College, Pleasant Hill, CA

August 2021 – May 2023

A.S. Computer Science; A.S. Mathematics; A.A. Economics

- GPA: 4.00 | Academic & Graduation Honors
- Certificates: Advanced C++ Programming, Computer Architecture, Program Design

TECHNICAL SKILLS

- Languages: Python, R, SQL, C++, LaTeX
- Tools & Platforms: Microsoft Office (Excel, Word, PowerPoint), Tableau, Power BI, Jupyter, RStudio, Git
- Methods & Techniques: Regression, Decision Trees, Random Forest, XGBoost, EDA, Hypothesis Testing, KNN

ACADEMIC PROJECTS

MLB Pitcher Performance Forecasting

Spring 2025, UCLA

- Aggregated and normalized 15+ seasons of MLB pitch and game-level data, engineering features for predictive modeling.
- Trained linear regression, decision tree, and XGBoost models to predict current-season WAR and used panel regression to forecast next-season WAR, uncovering key performance drivers and trends in player performance.
- Presented findings and insights to a professional MLB client, informing player evaluation and strategy decisions.

Predicting NBA Game Outcomes

Fall 2024, UCLA

- Built predictive models using player and team stats, optimizing feature selection to improve classification accuracy.
- Applied logistic regression, decision trees, and XGBoost to evaluate feature importance and model performance.

Netflix Content Analysis

Spring 2025, UCLA

- Analyzed 8,800+ titles in Python to uncover trends in TV show durations, genre diversity, and content types over time.
- Predicted content type with logistic regression and visualized patterns using Matplotlib and Seaborn.

Song Lyrics Text Mining (R)

Winter 2025, UCLA

- Preprocessed 50+ years of lyrics and applied tokenization and sentiment analysis to extract thematic and genre trends.
- Visualized temporal shifts in lyrical content, highlighting patterns in sentiment and language usage over time.

EXPERIENCE

On Track Learning, Alamo, CA

December 2021 – Present

Single Subject Tutor

- Deliver 1:1 algebra and calculus tutoring to 6–12 students weekly, tracking improvement and improving outcomes.
- Adapt instruction to diverse learning styles, documenting measurable improvement across semesters.

Cold Stone Creamery, Pleasant Hill, CA

July 2020 – March 2022

Shift Lead

- Supervised daily store operations and trained new employees, implementing standard procedures to improve efficiency.
- Managed cash handling, tracked transactions, and maintained accurate financial records to ensure accountability.

LEADERSHIP EXPERIENCE

Chi Alpha Psi Co-Ed Transfer Fraternity, UCLA

January 2024 – June 2025

President/Social Chair

- Planned and facilitated weekly meetings for 30+ members, creating agendas and presentation slides to track progress.
- Managed \$3,000+ budgets and organized 12+ events per quarter, tracking participation to improve engagement.
- Directed weekly officer meetings to align strategy, delegate tasks, and report on progress toward chapter goals.