

Graduate student in Data Science at UC San Diego with hands-on experience in machine learning, statistical modeling, and distributed computing gained through coursework and applied projects. Built predictive models and recommendation systems using Python, scikit-learn, and Apache Spark. Seeking an entry-level data scientist role applying ML techniques to solve business problems.

## Education

<b>M.S. in Data Science</b> <i>University of California, San Diego</i> Graduating: March 2026   University GPA: 3.80 /4.00	2024 - 2026 La Jolla, CA
<b>B.S. in Management Information Systems</b> <i>California State University, Sacramento</i> University GPA: 3.80 /4.00 (Magna Cum Laude)	2022 - 2024 Sacramento, CA
<b>A.S. in Accounting   A.S. in Business Administration</b>	2020 - 2022

## Projects

<b>Car Value Predictor</b> (2024) Pricing model to support used-car valuation decisions by estimating market prices across 10 major manufacturers using live marketplace data. <ul style="list-style-type: none"><li>▶ Collected and standardized 84K+ vehicle listings via custom web scraper and automated pipeline for cleaning, outlier handling, and feature engineering</li><li>▶ Selected LightGBM after benchmarking regression approaches, achieving MAE \$1.7K (6.3% of average price) with <math>R^2 &gt; 0.96</math> across manufacturers</li><li>▶ Validated robustness on new data collected one month later, maintaining <math>R^2 &gt; 0.95</math> despite market volatility</li><li>▶ Delivered interactive Dash dashboard with price distributions and SHAP-based explanations to support transparent pricing decisions</li></ul>	(Personal Project, <a href="#">View Project</a> )
<b>Amazon Sports &amp; Outdoor Products Recommender System</b> (2025) Hybrid recommendation system designed to surface relevant products from a sparse 4M+ Amazon review dataset. <ul style="list-style-type: none"><li>▶ Mitigated 99.998% sparsity by combining collaborative filtering (SVD) with content-based features (Ridge regression) to improve cold-start performance</li><li>▶ Benchmarked five recommendation strategies and optimized hybrid weighting (60% SVD, 40% Ridge) to balance personalization and coverage</li><li>▶ Achieved strong ranking quality (nDCG@10: 0.9981) with 31.5% error reduction over baseline methods</li></ul>	(Academic Project, <a href="#">View Code</a> )
<b>NYC Yellow Taxi Fare Prediction</b> (2025) Fare prediction model built from 150M+ NYC taxi records, earned 3rd place in class competition. <ul style="list-style-type: none"><li>▶ Engineered time/efficiency features from 20GB+ trip data using Apache Spark and Dask</li><li>▶ Trained regressor achieving MAE \$1.91 and <math>R^2 0.94</math>, improving RMSE by 49% over baseline</li><li>▶ Scaled training with distributed computing (15 workers, 60 cores) and validated performance using residual analysis</li></ul>	(Group Project, <a href="#">My Contributions</a>   <a href="#">View Code</a> )

## Skills

**Programming & Libraries:** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL, JavaScript (D3.js)

**ML & Analytics:** Regression, Classification, Recommendation Systems, Hyperparameter Tuning, A/B Testing

**Data Engineering:** ETL Pipelines, Apache Spark, Dask, Data Cleaning, APIs

**Tools & Platforms:** Git, Tableau, Excel, Azure

## Experience

<b>DBI Beverage</b> <i>Lead AM Warehouse Associate</i> <ul style="list-style-type: none"><li>▶ Managed 7-person team distributing 50K+ cases/day for Coors, Modelo, and Corona brands</li><li>▶ Spearheaded new Warehouse Management Software (VIP EasyOps) implementation, partnering with vendors to modernize workflows</li><li>▶ Improved inventory accuracy 12% through better labeling, FIFO procedures, and discrepancy investigation</li></ul>	2014 - 2020 Stockton, CA
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