

ZACK MOSLEY

(209) 487-4826 | zmosleymis@gmail.com

[GitHub](#) | [LinkedIn](#)

EDUCATION

University of California, San Diego

Master of Data Science

University GPA: 3.78 /4.00

- Relevant Coursework: Statistics, Linear Algebra, Big Data Analytics, NLP, Data Visualization

La Jolla, CA

Expected Graduation: June 2026

California State University, Sacramento

Bachelor of Science in Business Administration -

Management Information Systems

University GPA: 3.80 /4.00

- Honors: Magna Cum Laude, Dean's Honor List
- Relevant Coursework: Data Mining, Advanced Analytics, ML, Data Management

Sacramento, CA

May 2024

Associate of Science in Accounting

Associate of Science in Business Administration

May 2021

TECHNICAL PROJECTS

Vehicle Value Estimator (Personal Project, [Full Project](#))

End-to-end vehicle price prediction dashboard using scraped data from Cars.com.

- ▶ Built **ETL pipeline** to ingest/clean **80K+ vehicle listings** across top 10 U.S. manufacturers
- ▶ Engineered features (trim, mileage, year, body style); analyzed price trends via EDA
- ▶ Analyzed depreciation trends by make/year to quantify long-term value patterns
- ▶ Trained & optimized LightGBM (**MAE ~\$1.7K, $R^2 \approx 0.96$**) on categorical + numerical features
- ▶ Deployed interactive Dash/Plotly dashboard for real-time pricing & feature insights

NYC Taxi Fare & Tipping Analysis (Academic Project, [My Contributions](#) | [Full Project](#))

Led analysis of **150M+** NYC taxi rides using Spark on SDSC supercomputer, earning **3rd place** in class-wide project competition.

- ▶ Conducted EDA on 20GB+ trip data: time trends, fare efficiency, tipping patterns
- ▶ Applied filters to outliers/invalid trips; engineered time & efficiency features
- ▶ Processed 170M+ trip records on distributed Spark cluster, retaining 88% clean data
- ▶ Developed fare predictor (**MAE ~\$1.91, $R^2 \approx 0.94$**) and tip classifier (**~79% accuracy**)
- ▶ Benchmarked against baseline regression, achieving **36% RMSE reduction** with LightGBM
- ▶ Evaluated performance with stratified sampling, residual analysis, and baseline benchmarks

SKILLS

Languages & Tools: Python (Pandas, NumPy, Scikit-learn, Plotly, Matplotlib, Seaborn), SQL, Git, Tableau, Streamlit, Azure DevOps, Excel

ML & Analytics: Statistical analysis, Regression, Classification, EDA, Feature engineering, Cross-validation, Model evaluation

Big Data: Apache Spark, Dask

WORK EXPERIENCE

DBI Beverage

AM Lead Warehouse Associate

2014 - 2020

Stockton, CA

- Improved inventory accuracy **12%** by analyzing records and resolving data discrepancies.
- Reviewed daily operational metrics to pinpoint inefficiencies and recommend workflow changes.
- Managed inbound logistics for **50K+ cases/day**, maintaining smooth warehouse operations.
- Streamlined workflows with regional teams.
- Coordinated cross-team communication ensuring accuracy and timely inventory updates
- Oversaw distribution for **Molson Coors** and Constellation brands (**Modelo, Corona**).