

# ZACK MOSLEY

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## EDUCATION

### University of California, San Diego

*Master of Data Science*

University GPA: 3.78 /4.00

La Jolla, CA

Expected Graduation: June 2026

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

### California State University, Sacramento

*Bachelor of Science in Business Administration with  
Concentration in Management Information Systems*

University GPA: 3.80 /4.00

Sacramento, CA

May 2024

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

## TECHNICAL PROJECTS

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

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 regulatory filters to outliers/invalid trips; engineered temporal & efficiency features
- ▶ Processed 170M+ trip records on distributed Spark/Dask 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, 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 - 2019

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**).

### Reliable Flooring

*Lead Laborer*

2012 - 2014

Stockton, CA

- Assigned daily tasks to subcontractors to optimize workflow for on-time project completion.