Andrew Sosa Guaita

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Applied Mathematics student at UC Berkeley with experience in data analytics, statistical modeling, and machine learning. Proven track record in developing data pipelines, analyzing business performance metrics, and conducting experimental analysis through internships at Motorola Solutions and Driscoll's.

EDUCATION

University of California, Berkeley **Berkeley, CA**
B.A. in Applied Mathematics: Statistics, Minor in Data Science Expected May 2025

- **Relevant Coursework:** Modern Statistical Prediction and Machine Learning, Probability, Statistics, Time Series, Linear Modelling, Abstract Linear Algebra, Real Analysis, Numerical Analysis
- **Organizations:** Mathematics Undergraduate Student Association, MPS Scholars, Golden Records
- **Other:** Deep Learning for Visual Data, Competitive Programming

Cabrillo College **Aptos, CA**
A.S. in Computer Science, Mathematics, and Economics August 2020 – May 2023

- Graduated with Highest Honors; Completed two research papers on the economic impact of AI

EXPERIENCE

Motorola Solutions, Inc. **Remote**
Data Science Intern May 2024 – Present

- Developed ETL pipeline using Python/SQL to transform complex configuration data for ML models
- Applied ML techniques to analyze 10,000+ radio configurations, identifying key usage patterns
- Built usability testing platform using retrieval-augmented generation to create diverse user personas
- Designed and implemented end-to-end BI dashboards in Tableau integrating multiple data sources
- Led product analytics initiatives using A/B testing to measure user behavior metrics, informing feature prioritization

Driscoll's, Inc. **Watsonville, CA**
Data Analyst Intern May 2023 – August 2023

- Built Python ETL pipeline to process daily supply chain data, reducing report time by 40 hours
- Implemented automated data validation system improving forecast accuracy by 90%
- Led cross-functional initiative to standardize data processes, improving data quality by 80%
- Built and maintained Tableau dashboards used by 200+ team members for supply/demand decisions

PROJECTS

Berkeley Rental Market Analytics Tool (BerkeleyNest.com)

- Built ML-driven rental analytics platform processing 5000+ Berkeley rental listings daily using GCP
- Engineered ETL pipeline with real-time data preprocessing and validation using Python and NoSQL
- Developed segmented ensemble ML model using TensorFlow achieving 92% prediction accuracy
- Created interactive dashboard visualizing real-time market trends using React and D3.js

SKILLS

Programming: Python, SQL, R, MATLAB, C++, Bash
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow
Tools: Excel, Tableau, GCP, Git, Jupyter Notebooks