Martin Chavez

Data Analyst

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Data analyst with 6 years of experience who turns messy business data into decisions with **Python, R, SQL and Tableau**. Built a Python billing audit covering **nearly $1M in invoices** for a small business, and presented datathon findings to judges from **Microsoft** and **Resolution Economics**. Earned a B.S. in Business Analytics from **CSUN** with a **3.93 GPA** (top 10% of class).

Experience

Operations Coordinator, Dent Right, Sep 2020- Present

- **Data Pipeline & Audit:** Built a **Python** pipeline that extracted **~7,900 invoice records** from 46 months of client statements (**nearly $1M billed**) and reconciled every statement, flagging **40 billing records** for correction, including 3 possible double billings.
- **Reporting & Dashboards:** Built an interactive billing dashboard tracking revenue by month, client, service and year, giving the owner visibility into trends that weren't visible before.
- **Client Analytics:** Analyzed billing across 6 dealership accounts, found that one account drives **56% of revenue**, and recommended steps to reduce client concentration risk.
- **Accounts Receivable:** Manage end-to-end billing, invoicing and payment processing; reconcile payments against outstanding invoices and resolve discrepancies and overpayments.
- **Financial Reporting:** Prepare monthly financial summaries and cash-flow tracking for owner review.
- **Operations:** Coordinate payroll payments, bank deposits, vendor purchasing and procurement using **Microsoft 365**.

Data Analyst Mentee, (Rocket Industry Mentorship), Summer 2026

- **Machine Learning:** Built a **scikit-learn** regression pipeline (scaling, one-hot encoding) to predict nightly prices for **48,895 NYC Airbnb listings**; methodology and business relevance reviewed by a **Rocket data analyst**.
- **AI-Assisted Development:** Developed the pipeline with **Claude Code** as part of the mentorship's focus on industry AI tools, directing the workflow and reviewing and validating the code and model results.
- **Data Cleaning:** Removed 1,055 outlier rows, imputed missing review rates and log-transformed the skewed price target.
- **Results:** Reached a test **R^2 of 0.53 (RMSE ≈ $69)**; private rooms priced ~53% below entire homes and Manhattan ~71% above the Bronx, all else equal.

CSULB Datathon (Microsoft), Spring 2026

- **Data Sourcing & Analysis:** Sourced 2000–2023 national, state and industry data from the U.S. Bureau of Economic Analysis and built time-series and comparative analyses in **Python** (pandas, matplotlib, seaborn) on a 5-person team.
- **Insights:** Found GDP outpaced personal income by **20–30 index points** since 2000, with state per-capita income ranging from **$45K to $88K**.
- **Stakeholder Presentation:** Presented findings in an 8-minute pitch and Q&A to a judging panel that included **Microsoft** professionals.

LMU Datathon (Resolution Economics), Spring 2026

- **Operational Analysis:** Analyzed **1,732 emergency airlift calls** across 21 helicopter bases to measure response times (44.6-min average), peak call hours and base workloads.
- **Compliance Modeling:** Modeled a 3-break meal schedule in Python and estimated **~31% of shifts** would violate California meal-break rules, up to 55% at the busiest base.
- **Recommendations:** Quantified a **3.4-minute** response-time cost of rerouting using geodesic distance (geopy), and presented staffing and staggered-break recommendations to **Resolution Economics** professionals.

Academic Projects, Fall 2025

- **Competitive Strategy for a Kitchenware Brand:** Benchmarked a declining brand against two competitors with **Tableau** dashboards, seasonality and **RFM analysis**; traced a **$210K revenue decline** to a 26% drop in its catalog channel and recommended a three-part channel strategy.
- **Competitive Gas Pricing:** Forecast daily sales (962 gallons/day) and built a multiple regression in **R** (R^2 0.96) to recommend prices under three competitor scenarios.

Technical Skills & Tools

- **Languages & Libraries:** Python (pandas, NumPy, scikit-learn, matplotlib, seaborn), R (tidyverse, ggplot2, tidytext), SQL
- **Analytics & Modeling:** Regression, classification, k-means clustering, neural networks, time-series forecasting, sentiment analysis, hypothesis testing

- **Visualization & BI:** Tableau, Excel, dashboard design, data storytelling
- **Tools:** Claude Code (AI-assisted development), Jupyter, Google Colab, RStudio, VS Code, Microsoft 365
- **Core Competencies:** Data cleaning, exploratory data analysis, KPI reporting, financial reconciliation, stakeholder presentations

Education

Bachelor of Science in Business Administration, Business Analytics

California State University, Northridge, Northridge, USA

- **Honors:** 3.93 GPA; Graduated top 10% of class; Beta Gamma Sigma International Business Honors Society.
- **Activities:** Recruitment Chair, Latino Business Association; Marketing Chair, Business Analytics Club.

Certificate of Achievement, Business Analytics

Pasadena City College