Andres Perez Martinez

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Skills

Programming/Software	Python (Pandas, NumPy, Scikit-learn), R, SQL, SQLite, Excel, Git, GitHub, Stata, LaTeX (Markdown), MS Office
Specialization	Data Analytics, Data Science, Machine Learning, Econometrics, Statistics, Linear Regression, Data Visualization

Education

California Polytechnic State University *San Luis Obispo, CA*
MS in Quantitative Economics *Aug 2022 - June 2023*
- **Courses:** Machine Learning, Financial Time Series, Programming for Economics, Advanced Econometrics I and II, Dynamic Stochastic Modeling, Microeconometrics, Microeconomic Analysis

California State University, Sacramento *Sacramento, CA*
BA in Economics *Aug 2020 - May 2022*
- **Honors:** Graduated Cum Laude
- **Courses:** Quantitative Economic Analysis, Economic Research Methods, Intro to Econometrics, Calculus I and II

Projects

Using Machine Learning to Improve Treatment Targeting in Farmer Training *San Luis Obispo, CA*
World Bank Organization *Jan 2023 - June 2023*
- Employed advanced data exploration techniques to identify recurring trends, contributing to a deeper understanding of the relationships between farming practices and their impact on outcomes
- Studied latitude-longitudinal data and satellite imagery to find variations in trends and get the historical data to back up the results and changes in the trend of our data
- Investigated specific case studies focusing on Cambodia and Ethiopia, showing the impact of trends on farming practices and resulting yields
- Meticulously used R to clean, manipulate, and merge variables from diverse databases, resulting in a functional dataset, which the team employed for conducting statistical analyses and creating data visualizations
- Developed and implemented machine learning algorithms to compare and contrast outcomes between Cambodia and Ethiopia, showing differences between cultures and their farming practices

House Prices in San Diego and Sacramento *San Luis Obispo, CA*
California Polytechnic State University *March 2023 - June 2023*
- Examined housing price data spanning from 1976 to 2022, showing accurate patterns encompassing trends, correlations, and probabilistic insights
- Employed an array of time series tests, fitted diverse models to capture the dynamic nature of housing prices to generate accurate predictions
- Conducted a thorough comparative analysis, spotlighting both consistencies and disparities between two distinct counties' housing market

Economics of Population Growth and Immigration on Unemployment Rate in California *Sacramento, CA*
California State University, Sacramento *Jan 2022 - May 2022*
- Collected, cleaned, and analyzed data in order to conduct tests and cross-sectional regression using Excel and GRETL
- Organized meta-analysis on various economic research to determine the effects of population growth on the unemployment rate

Work Experience

Grading Assistant *San Luis Obispo, CA*
California Polytechnic State University *Jan - June 2023*
- Utilized innovative data-driven methodologies to assess assignments and projects, guaranteeing a fair and consistent evaluation process. Detail oriented approach ensured accurate grading aligned with predefined criteria
- Using effective communication skills and collaboration, students were granted with insightful feedback, fostering their growth and deepening their understanding of complex course material in the field of data analytics
- Rigorously evaluated student submissions, demonstrating technical expertise in data management. This collaborative effort helped align their work with predefined grading criteria and technical standards

Inventory Specialist *Tulare, CA*
Lagomarsino *May - Aug 2019, May - Aug 2020*
- Employed advanced data management techniques to conduct detailed analysis, generating data-driven reports that offered comprehensive business intelligence. This innovation provided actionable insights into product availability, enriching decision-making processes
- Ensured the utmost accuracy and consistency in reporting. This meticulous attention to detail enhanced the reliability of product reception information for operational planning