Andres Perez Martinez

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Skills

Programming & Software: Python, R, SQL, JavaScript, MongoDB, Excel, Git, GitHub, Stata, LaTeX (Markdown), Domo, Stata

Domain Expertise Data Science, Data Analytics, ETL, Econometrics, Machine Learning, Statistics, BI, Data Visualization

Relevant Work Experience

Business Intelligence Developer *Visalia, CA*

Kaweah Health *Mar 2025 - Present*

- Built and automated reports and dashboards using SQL, R, and Python, incorporating ETL processes to clean, transform, and consolidate data from multiple sources for analysis and strategic decision-making
- Designed and maintained relational database queries, optimized for performance and accuracy, to support both ad hoc and scheduled reporting needs
- Worked closely with cross-functional teams, including healthcare operations and IT staff, to deliver actionable insights from Cerner application data and other clinical systems

Data Analyst *Reedley, CA*

Moonlight Companies *Dec 2023 - Mar 2025*

- Leveraged Python, R, and SQL to perform analyses, statistical tests, build ETL pipelines, and process and visualize data, creating tools that provided distinct teams with detailed insights
- Developed predictive models (ARIMA, SARIMA) to accurately forecast sales and determine optimal harvest dates for commodities reducing overselling, and enhancing reporting accuracy
- Developed a JavaScript-based tool enabling users to access detailed maps and coordinates of ranches, enhancing asset management and information tracking

Data Scientist (Intern) *San Luis Obispo, CA*

World Bank Group *Jan 2023 - Jun 2023*

- Used Python to develop and implement machine learning algorithms including Neural Networks, Random Forest, Support Vector Machines (SVM), and Ridge regression to compare outcomes between Cambodia and Ethiopia, highlighting differences in culture and farming practices
- 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
- Employed advanced data exploration techniques to identify recurring trends, utilized 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

Education

California Polytechnic State University, San Luis Obispo *San Luis Obispo, CA*

Master of Science in Quantitative Economics *Aug 2022 - Jun 2023*

- **Relevant 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*

Bachelor of Arts in Economics *Aug 2020 - May 2022*

- **Honors:** Graduated Cum Laude
- **Relevant 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 Group *Jan 2023 - Jun 2023*

- Collaborated with the World Bank Group on a project that assessed the impact of new farming techniques on farmers in developing countries
- Utilized Python, R, and Excel for data preprocessing, statistical analysis, and machine learning model development
- Developed an interactive map utilizing longitude and latitude data to identify false positives and false negatives within the observations

Comparative Analysis of Residential Property Prices in San Diego and Sacramento *San Luis Obispo, CA*

California Polytechnic State University, San Luis Obispo *Mar 2023 - Jun 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