Andres Perez Martinez

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Skills

Tools/Software Python (Pandas, NumPy, Scikit-learn), R, SQL, Javascript, MongoDB, Excel, Git, GitHub, Stata, LaTeX (Markdown)

Field Data Analytics, Data Science, Machine Learning, Data Pipelines, Econometrics, Statistics, Linear Regression, Data Visualization

Education

California Polytechnic State University *San Luis Obispo, CA*

MS in Quantitative Economics *Aug 2022 - June 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*

BA 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

Work Experience

Data Analyst *Reedley, CA*

Moonlight Packing Companies *Jan 2024 - Current*

- Leveraged Python, R, and SQL to perform analyses, execute statistical tests, build ETL pipelines, and process and visualize data, creating tools that provided the team with detailed insights
- Developed predictive models to accurately forecast sales and determine optimal harvest dates for commodities, thus 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 - 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
- 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
- Used Python to Develop and implement machine learning algorithms including Neural Networks, Random Forest, Support Vector Machines (SVM), and Ridge regression to compare and contrast outcomes between Cambodia and Ethiopia, showing differences between cultures and their farming practices

Projects

Using Machine Learning to Improve Treatment Targeting in Farmer Training *San Luis Obispo, CA*

World Bank Group *Jan 2023 - June 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

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