Jaime Andrés Castañeda

Data Scientist

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Summary of Qualifications

- Researcher with 10+ years of experience applying experimental economics and data analysis to study decision-making in supply chains
- Data science and machine learning training with Correlation One and DeepLearning.AI using Python and SQL
- Rigorous, organized and ready to give a hand to my teammates and learn from them

Skills

- Programming languages: Python, SQL, Java
- **Analytics:** data wrangling, data visualization, descriptive and inferential statistics, econometrics, machine learning
- **Tools:** Python (pandas, numpy, matplotlib, seaborn, scikit-learn, keras), Postgres, Stata, SPSS, Excel, Power BI, Git, Qualtrics, LimeSurvey

Relevant Experience

Data Science Fellow, Correlation One

Mar 2022 - Jul 2022 | Remote

- Collaborated with five teammates to analyze motorcycle accidents in Bogotá for prioritizing road safety operations, pulling data from a GIS web service into a local Postgres database using Python and SQL
- Analyzed more than 200,000 rows of accident-related data, creating heatmap visualizations based on crosstabs that relate accident type, accident severity and vehicles involved using SQL, Python and Seaborn
- Developed an unsupervised machine learning (ML) model by engineering continuous and categorical features using the K-Prototype algorithm in Python, defining prioritization levels for road safety operations

Associate Professor, Universidad del Rosario

Sep 2021 - Jan 2022 | Bogotá, Colombia

- Co-led a funded research project that analyzed the role of expediting prices in inventory replenishment, implementing an in-person and online behavioral experiment with 400+ participants
- Examined more than 25,000 rows of replenishment decisions using Excel, creating customized column chart visualizations of the decisions grouped by expediting prices and behavioral interventions, averaged over subjects
- Fit several supervised ML models by engineering continuous and categorical features using random-effects panel data models in Stata, providing insight into how expediting prices impact replenishment decisions

Assistant Professor, *Universidad del Rosario*

Apr 2016 – Sep 2021 | Bogotá, Colombia

- Advised the World Food Programme on the potential of return contracts to scale crop storage technology production, leading a funded project that implemented a behavioral experiment in Uganda with 40 students and six tinsmiths
- Analyzed about 2,000 rows of production decisions using Excel, creating customized scatter chart visualizations of the decisions grouped by contract type and contract prices, averaged over subjects
- Fit several supervised ML models by engineering continuous and categorical features using multiple linear regression models in Stata, providing insight into how return contracts influence production decisions

Additional Experience

 Analyze data from latest academic projects using Python libraries for data science 	2022 – Present
 Built a data pipeline module for my data science fellowship project to update the local database with monthly accident-related data 	2022 - 2023

 Added a Power BI dashboard to my latest academic project to provide an overall understanding of the implemented behavioral experiment and its results

2022 - 2022

Education

Ph.D., Economics, Università della Svizzera italiana

2013 | Lugano, Switzerland