

JOSE CARLO BURGA

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ANALYTICS PORTFOLIO

Professional Summary

Data and Predictive Analytics professional with a background in public policy and impact program development and evaluation, and social and economic analysis, transitioning from a non-profit leadership role to the world of data science. With experience using Python, Power BI and Tableau to generate data-driven insights. Skilled in data collection, transformation and integration, and in extraction, transformation and loading, for data analysis and predictive modeling. Comfortable working with big data to explore social and economic patterns.

Technical Skills

- **Data Analytics:** Python (Pandas, NumPy), SQL, Power BI, Tableau, GitHub
 - **Predictive Modeling:** Scikit-learn, Random Forest, Time Series Analysis
 - **Data Visualization:** Matplotlib, Seaborn, Tableau, Power BI
 - **Geo-Spatial Analysis:** GeoPandas, Shapely
 - **Tools:** Jupyter Notebooks, GitHub, SQL, Excel
 - **Languages:** English, Spanish
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Analytics Projects (Peru as inspiration)

Python – Predictive Analytics (GitHub Repository)

- **Agriculture Spatial Gender Gap:** Developed predictive models analyzing the gender gap in agriculture across various spatial dimensions in Peru. Employed Python's scikit-learn for machine learning models, focusing on location-based patterns in gender disparity.

Python - Data Analytics (GitHub Repository)

- **Peru Agriculture Gender Gap (1994-2022):** Conducted comprehensive analysis of the gender gap in Peruvian agriculture from 1994 to 2022. Utilized time-series data to highlight trends, disparities, and growth patterns. Presented findings with data visualizations to highlight critical insights into gender differences by region and sector.

Financial Services in Agriculture

- **Peru Farmer Access to Financial Services:** Explored financial inclusion among Peruvian farmers, focusing on access to credit, insurance, and savings. Mapped farmer demographics with access to financial services using geo-spatial analytics and Tableau.

Gender Gap in Agriculture

- **Peru Gender Gap by Age, Education Level, and Language:** Analyzed demographic data to assess gender disparities in agricultural engagement by age, education level, and language. Visualized patterns in Tableau to drive awareness of the socio-economic impact on gender equality in rural areas.

People in Agriculture

- **Peru Total Population in Agriculture:** Analyzed demographic data to provide insights into the total population engaged in agriculture in Peru. Integrated findings with broader economic indicators to highlight the sector's contribution to Peru's economy.

Agriculture in Peru

- **Trade Balance & GDP Impact:** Investigated Peru's agricultural trade balance and economic impact, focusing on GDP contributions and value-added by sub-sector. Utilized Python and SQL for data analysis, providing insights into both local and foreign financing in agriculture.

Peru Export Intelligence System

- **Export Destinations & Product Analysis:** Created an export intelligence dashboard system to assess Peru's trade patterns. Analyzed exports by product, industry, and destination, identifying growth opportunities in non-traditional markets and segments. Used Power BI to present findings interactively.

Investment Conditions in Peru

- **Social, Economic, and Gender Inequality Indicators:** Conducted a multi-dimensional analysis of Peru's social and economic indicators, emphasizing gender inequality and technology adoption gaps. Presented actionable insights to inform policymakers on areas needing improvement for equitable growth.

Professional Experience

Executive Director, Peruvian Business Council 2008 – 2020

- Led strategic initiatives to promote Peruvian trade and economic development.
- Developed and managed partnerships to increase access to financial resources for agricultural sectors.

Director of Fundraising, Archdiocese of New York, 2006 – 2007

- Directed fundraising initiatives to support community development projects.

Public Policy Analyst, United Nations Development Programme – Bolivia, 2002 – 2003

- Conducted socio-economic research to support policy recommendations focused on poverty alleviation.

Certifications

- **Data Analytics** - LaGuardia Community College, CUNY, New York City, NY, USA (2024)
- **Sustainability Reporting** - Global Reporting Initiative, New York City, NY, USA (2019)

Education

- **Bachelor's of Business Administration** - Universidad Jose Faustino Sanchez Carrion, Peru
 - **Law Degree**, Universidad Inca Garcilaso de la Vega, Peru
 - **Bachelor's of Law & Political Science** - Universidad Inca Garcilaso de la Vega, Peru
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