GUILLERMO BARRENA

Data Scientist & Analyst

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ABOUT ME

Data-oriented economist with a focus on analysis and data science, with a strong foundation in statistics, programming, and machine learning. I have experience working with real-world data in projects involving visualization, exploratory analysis, and predictive modeling. I am passionate about uncovering insights that create value and supporting evidence-based decision-making. I stand out for my adaptability, continuous learning, and commitment to constant improvement.

WORK EXPERIENCE

Data Analyst

July - December 2024

I worked as a data analyst at the Institute of Economic and Statistical Research (IIEE), a branch of INDEC in the province of San Juan. I collaborated with the Gross Geographic Product (GGP) and Consumer Price Index (CPI) teams. In the GGP team, I participated in the collection and processing of external data, the calculation of variables for the commerce sector, and the updating of information on the institutional website. I was also an active part of the Manufacturing Industry Survey (RIM) conducted in San Juan that year, contributing to data analysis, control and follow-up of collected data, transformation of information for subsequent loading and analysis, and database management. In the prices area, I was responsible for monitoring special operations, controlling and analyzing price variations, evaluating the product basket, and developing more efficient data collection models. For these tasks, I used tools like Python, Pandas, SQL, Excel, and Power BI.

ACADEMIC BACKGROUND

Universidad Católica de Cuyo

Bachelor's Degree in Economics │ March 2019 - July 2025

Universidad Católica de Cuyo

Diploma in Data Science │ July 2024 - Present

TECHNOLOGIES

- Python
- SQL
- WSL (Ubuntu)
- Pandas
- Docker
- Github
- DuckDB
- Motherduck
- Mage AI
- Tensorflow / Keras
- Flask
- PostgreSQL

LANGUAGES

Spanish	English
Native	Advanced (Cambridge First Certificate – B2)

HIGHLIGHTED PROYECTS

- Medical Image Diagnosis: Developed both CNN and logistic regression models to detect anomalies in X-rays. Conducted performance comparison using statistical methods to evaluate accuracy and precision.
- Web Scraping and Storage: Price extraction from a website, data loading into PostgreSQL (with Docker) and DuckDB, and queries using MotherDuck and Python (SQL).
- Pipeline Automation: Full process orchestration using Mage for data ingestion, cleaning, and updating.