





GUILLERMO BARRENA

Data Scientist & Analyst

 San Juan, Argentina
 +54 9 264 530 1859

 guillebarrena1@gmail.com
 [Linkedin](#)

ABOUT ME

Economist with a strong focus on data analysis, solid background in statistics, programming, and database management. I have experience working with real-world data, developing ETL processes, automating tasks, and presenting clear and relevant statistical analyses to support decision-making. I am driven by the discovery of insights that create value and contribute to evidence-based management. I stand out for my adaptability, continuous learning, and commitment to ongoing improvement.

WORK EXPERIENCE

Data Analyst

July - December 2024

I worked as a data analyst at the Institute of Economic and Statistical Research (IIEE), a regional branch of INDEC in San Juan. I collaborated with the Gross Geographic Product (PGB) and Consumer Price Index (CPI) teams. In the PGB area, I participated in the collection and processing of external data, calculation of variables for the commerce sector, and updating institutional website content. I contributed to the 2024 Manufacturing Industry Survey (RIM), supporting data analysis, quality control, data transformation, and database construction. In the CPI area, I was responsible for monitoring special field operations, analyzing price variations, evaluating the product basket, and developing more efficient data collection models through automation. I worked with tools such as 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
- PostgreSQL
- Pandas
- Docker
- Github
- Motherduck
- Mage AI
- Excel
- Power BI
- AWS (Basic)
- dbt (Basic)

LANGUAGES

Spanish

Native

English

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: extracted price data from a website and loaded it into PostgreSQL (via Docker) and DuckDB. Executed SQL queries from Python using MotherDuck, with SQLAlchemy and Pandas.
- Pipeline Automation: Full process orchestration using Mage for data ingestion, cleaning, and updating.