

# Rocío Lozano Caro

Data Analyst · Málaga

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## PROFILE

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Junior Data Analyst with technical training in Python, SQL, Excel and Power BI, an academic background in Chemistry, and 8 years teaching science, which has given me the ability to explain technical concepts to non-technical audiences. With projects focused on data cleaning, exploratory analysis (EDA), supervised and unsupervised modeling, and data visualization, applying a scientific approach at every stage of the analysis.

## EDUCATION

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### Bootcamp Data Analysis.

Nov 2025 – Mar 2026

*Fundación Don Bosco and Factoría F5.*

### Degree in Chemistry.

*University of Cádiz – Studies completed, dissertation pending.*

### Baccalaureate in Health Sciences.

2011 – 2013

*IES Asta Regia – Jerez de la Frontera.*

## EXPERIENCE

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### Private Tutor.

2016 – 2024

*Private lessons at home / Academia A. M.*

- Chemistry, biology and mathematics lessons for secondary and pre-university students.
- Individual and group support adapted to each student's level and pace.
- Regular academic progress updates communicated to families.

## PROJECTS

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### Urbidata – Urban Mobility Analysis in Andalusia. *Python (Pandas, FastAPI, Folium) · Parquet.*

ETL pipeline built on open MITMA data to identify commuting flows and dormitory towns between Seville and Málaga. Includes a FastAPI backend, Parquet storage, and an interactive web dashboard with maps.

### AirBnB Dashboard. *Power BI (DAX, data modeling).*

Interactive dashboard built on AirBnB data with KPIs, visualizations, and data modeling for price and availability analysis.

### Unsupervised vs Supervised Modeling. *Python (Scikit-learn, Pandas).*

Clustering using PCA and KMeans compared against a supervised model to evaluate the performance of both approaches on the same dataset.

### Exploratory Analysis – Veterinary Clinic. *Python (Pandas, Matplotlib, Seaborn).*

EDA on a veterinary clinic dataset (dogs and cats) analyzing relationships between variables such as age, weight, and symptoms.

## TECHNICAL SKILLS

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- Python (NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn).
- SQL / MySQL (queries, joins, subqueries, aggregations).
- Power BI (data modeling, DAX, visualization, KPIs).
- Advanced Excel (pivot tables, dashboards, macros).
- ETL processes (data cleaning and transformation).
- Exploratory Data Analysis (EDA).
- Supervised and unsupervised Machine Learning (Random Forest, PCA, KMeans, GridSearch, RandomSearch).
- Version control (Git, GitHub).

## LANGUAGES

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**Spanish** – Native. **English** – Cambridge PET. (Grading: B2 Level). **German** – EOI (Course A2 Level).