



ROBERTO BACA

Industrial Engineer – Data Scientist

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[GitHub: github.com/roberbaca](https://github.com/roberbaca)

[Kaggle: kaggle.com/robertonicolsbaca](https://kaggle.com/robertonicolsbaca)

[LinkedIn: linkedin.com/in/robertonicolasbaca](https://linkedin.com/in/robertonicolasbaca)

PROFESSIONAL PROFILE

Industrial Engineer transitioning into Data Science with strong analytical skills, experience managing KPIs and reporting in operations and logistics, and hands-on training in Python, R, SQL, and Power BI. Passionate about solving real-world problems with data and eager to contribute to data-driven teams.

TOOLS & TECHNOLOGIES

- **Data Analytics:** Excel, Google Sheets, Power BI, SQL, Tableau
- **Data Science:** R, Python, Git
- **Web:** Javascript, HTML, CSS, React
- **ERP:** SAP, Oracle JDE One World

PROJECTS

Palmer Penguins ETL & EDA – Used R (with dplyr and ggplot2) - [View on Kaggle](#)

- Applied ETL (Extract, Transform, Load) processes to clean and prepare the Palmer Penguins dataset.
- Used *dplyr* to clean variable names, handle missing values, and standardize data.
- Explored variable distributions and relationships, identifying patterns across penguin species, sex, and islands.
- Created summary statistics and visualizations to support biological and ecological insights.

Linear Regression: Advertising Spend vs Sales – Used R (with lm() and ggplot2) - [View on Kaggle](#)

- Built and interpreted a linear regression model to predict sales based on TV, radio, and newspaper advertising spend.
- Evaluated model fit using residual plots, R^2 , and adjusted R^2 ; identified TV as the strongest predictor.
- Communicated findings through charts and clear interpretation of coefficients.

EDUCATION

INSTITUTO DE CIENCIA DE DATOS UTN - Diploma in Data Science with R and Python

May 2025 – Present

GOOGLE DATA ANALYTICS CERTIFICATE - Data Analysis with R

May 2025 – July 2025

UNIVERSIDAD NACIONAL DEL LITORAL - Technical Degree in Game Design and Development

2019 – 2023

NUCBA - FullStack Web Development Bootcamp

2021– 2022

EUDE BUSINESS SCHOOL - MBA in Business Administration and Management

2014 - 2016

ADEN BUSINESS SCHOOL - Diploma in Managerial Skills

2014

UNIVERSIDAD AUSTRAL - Diploma in Logistics

2011

UNIVERSIDAD NACIONAL DE CUYO - Industrial Engineering

2003-2008

WORK EXPERIENCE

Project and Continuous Improvement Manager

Codorniu Spain - January 2025 – May 2025, Sant Sadurní d'Anoia, Catalonia, Spain

Responsible for efficiently managing projects and implementing new facilities and improvements to existing ones. Managed and tracked CAPEX budget using KPIs and performance dashboards. Delivered monthly reports to stakeholders, using Excel and Power BI to visualize project progress and identify efficiency gaps.

Production and Logistics Manager

Bodega Séptima – October 2021 – December 2024

In addition to operations management, I oversaw the logistics area. Planning and scheduling of export and domestic shipments. Document support for operations. Coordination with customs agents, shipping companies, and freight forwarders. Booking requests and container availability. Analyzed logistics operations using KPIs to optimize shipment schedules for domestic and export markets.

Production Manager

Bodega Séptima - June 2015 - October 2021

Oversaw planning and execution of production using historical data and demand forecasts. Maintained operational databases to track inventory, raw materials, and finished goods across internal systems. Developed monthly reports for performance analysis and budget control in the Operations area. Managed operations budget and investment analysis. Oversaw export and domestic shipment coordination.

Production Scheduling Manager

Grupo Peñaflor - April 2013 - June 2015

Scheduled production runs based on historical trends and inventory targets using MRP/MPS tools. Supported logistics and export planning through data-driven coordination of finished goods availability.

Production Analyst

Grupo Peñaflor - November 2008 - April 2013

Monitored production data and assisted in scheduling and inventory control.

LANGUAGES

- **English:** Upper Intermediate (B2)
- **Catalan:** Basic