

Pablo Bauer

DATA SCIENTIST & AEROSPACE ENGINEER

DATOS PERSONALES

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Venturing into the world of Data Science with strong programming skills across multiple languages, including JAVA, C#, HTML, CSS, and MySQL, with a deep specialization in Python and Machine Learning libraries such as Sci-kit Learn and TensorFlow + Keras. I aim to combine my expertise in Quality with the development of Machine Learning technologies, contributing to the implementation of efficient processes. I am eager to drive growth and success in a dynamic and constantly evolving industry. With a solid background as an Aeronautical Engineer and over 9 years of experience in the Aeronautical sector, I have honed the technical and analytical skills I consider essential to tackle larger challenges and deliver impactful solutions.

EDUCATION

Master's Degree in Data Science and Machine Learning (2022 – 2023)

Digital House

- Predictive Models for Solar Power Generation Project
- Predictive Models for Logistics Project

Master's Degree in Composite Materials Engineering (2021 – 2022)

Facultad de Ingeniería de la Universidad de Buenos Aires

Degree in Aerospace engineer (2006 – 2013)

Universidad Nacional de La Plata

LANGUAGES

- **Español:** Nativo
- **Inglés:** C1 (Avanzado)
- **Alemán:** A1 (básico)

PROFESSIONAL EXPERIENCE

Business Intelligence Consultant & Business Process Analyst

(Apr 2024 – Present)

Freelancer

My primary objective is to help companies find effective solutions through data analysis and the application of data science. I leverage interpretation and visualization tools to identify trends and patterns that facilitate strategic decision-making. Additionally, I develop customized applications that integrate advanced analytics with the most suitable software tools tailored to the specific needs of each client. This enables businesses to optimize their operations and achieve their commercial objectives efficiently and effectively.

I combine this expertise with over nine years of experience in quality management and continuous improvement, where I implemented strategies and methodologies such as Lean and Six Sigma to optimize processes, documentation, and certifications. My approach is focused on improving daily efficiency and ensuring the optimal performance of operations, always aligning them with the strategic objectives of the companies.

This combination of technical and methodological expertise allows me to offer a comprehensive vision to transform data into tangible value, driving business growth and sustainability.

Projects I carried out:

- **Plomiplas** E-commerce platform + predictive models of customer behavior
- **Federación patronal** Dashboard with predictive models for customer clustering

Data Science & Web Developer

(Jan 2021 – Present)

Freelancer

As a Freelancer and Consultant, I have focused on web development for clients, creating a wide range of projects—from simple websites showcasing temporary rental properties to educational systems for managing students, classes, and exams, among others.

Additionally, I have advised small businesses and individuals on the analysis and standardization of their databases, enabling them to enhance their operations through modern information technologies. My approach has always been centered on providing optimal and efficient solutions tailored to meet the specific needs of my clients.

Proyectos que llevé a cabo:

- **Plomiplas** E-commerce platform + predictive models of customer behavior
- **Municipalidad de Lomas de Zamora** Aprender Lomas
- **Newron** Corporate Website
- **Federación patronal** Dashboard with predictive models for customer clustering
- **UIDET GTA** Educational web platform + Moodle
- **Entre Robles** Corporate Website

Lead Implementer of the Continuous Improvement program

(Agu 2015 – Present)

Quality engineering – Aerolíneas Argentinas

As an Aeronautical Engineer, I specialized in quality engineering, leading continuous improvement initiatives and implementing Agile and Lean methodologies to optimize productivity and transform work environments. I managed preparations for high-standard international audits, such as those by the FAA, IOSA, EASA, and INTI, ensuring compliance with global regulatory requirements.

My focus has been on modernizing outdated and inefficient work processes by integrating technological tools that leverage my expertise as a web developer and data scientist. I developed web applications featuring interactive dashboards and predictive models for managing key data, enhancing production control, and improving decision-making processes.

Profesor de Introducción a la Programación en Python para ingeniería de investigación

(Jan 2021 – ene 2023)

Extension Chair – National University of La Plata

My focus was on training students in key technologies such as Pandas, Matplotlib, NumPy, SciPy, and Tkinter. Using development environments like Visual Basic and Jupyter Lab, I emphasized the foundational principles of programming with Python and its libraries to familiarize students with essential technological tools.

I employed practical examples relevant to research and promoted interactive learning. Students acquired fundamental skills in Python programming and associated technologies, equipping them to apply this knowledge to research projects and their professional careers.

TECHNICAL SKILLS

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- Python
 - SciKit-Learn
 - Pandas
 - Machine Learning
 - Django, Flask
 - HTML, CSS
 - SQL: SQLite, Postgres
 - Plotly
 - Dash
 - Seaborn
 - API RESTFull
 - Web Development
 - Docker
 - Data Visualization
 - Digital Ocean (Cloud)

Data Manipulation · Django REST Framework · Machine Learning Algorithms · Problem Solving · TensorFlow · Django · HTML5 · Object-Oriented Programming (OOP) · Data Science · Web Technologies · Git · Computer Science · Artificial Intelligence (AI) · Flask · Exploratory Data Analysis · Statistical Data Analysis · Team Leadership · Continuous Process Improvement · Creative Problem Solving · Performance Tuning and Web Technologies · Cascading Style Sheets (CSS) · Data Analytics · Statistics · Communication · English · SQL · Web Development · Data Visualization · Python (Programming Language) · Project+ · Scikit-Learn · Data Manipulation · SciPy · Pandas (Software) · Object-Oriented Programming (OOP) · REST APIs · Jupyter lab · Team Leadership · NumPy · Statistics · Communication · English · Data Visualization · Agile Methodologies · Preparation for international audits · Quality Management · Quality Assurance · Continuous Process Improvement · Lean Six Sigma · Lean manufacturing · Optimization of workflows · Workflow Analysis · Computer Science · Technical documentation and regulatory compliance · Spanish-English

SOFT SKILLS

- Problem Solving
- Emotional Intelligence for Teamwork
- Critical Thinking
- Leadership Skills
- Effective Communication
- Creativity and Innovation

CERTIFICATIONS

Data Science and Machine Learning – Digital House	2023
Python Programming for Research Course – National University of La Plata (UNLP)	2019
ISO 9001 Course – Aerolíneas Argentinas S.A	2019
Lean Manufacturing 6S Course – Aerolíneas Argentinas S.A	2016
Project Management Course – National University of La Plata (UNLP)	2014