

Data Analyst and Engineer in Electronics with 4 years of experience in Education and Naval Industry. Eager to apply my data skills in a dynamic environment. **Skilled in Python, SQL, Data Integration and Visualization.** Experienced in **multidisciplinary collaboration** and **technical reporting based on data**. Focused on delivering actionable results to meet business needs.

SKILLS

Power BI Apache HOP SQL Python Power Query Microsoft Office 365 Jupyter Notebook Visual Studio Code
Lateral Thinking Effective Communication Cognitive Flexibility Multidisciplinary Collaboration

EDUCATION

Data Analyst, Tripleten (Bootcamp Online). Oct 2023 – Jun 2024
Mgs. Pedagogy for Technical Vocation, Universidad Bolivariana del Ecuador (Online). Jul 2022 – Oct 2023
Ing. Electronics & Telecommunications, Escuela Superior Politécnica del Litoral. May 2010 – Feb 2017

COURSES

SQL for Data Science (MySQL), A2 Capacitación (online). Mar 2023 – Jun 2023
Python for Data Science, A2 Capacitación (online). Jun 2023 – Sep 2023
Power BI for Data visualization, A2 Capacitación (online). Jan 2024 – Feb 2024

WORK EXPERIENCE

Business Intelligence Analyst (SQL, Apache Hop, Pentaho, Python, Power BI, Power Query, Office 365) Oct 2024 - Current

Industrial Pesquera Santa Priscila

- Trained the Company’s Quality Department in Power BI fundamentals and data visualization.
- Developed a local web app to remotely launch ETL workflows running in an AlmaLinux environment.
- Automated the processing of Excel-based data into a PostgreSQL database using Python and Apache HOP.
- Defined and designed KPIs aligned with business goals to track performance and support decision-making.
- Developed incremental ETL processes in Apache Hop using parameter injection to dynamically process multiple tables and load them into a PostgreSQL Data Warehouse.
- Implemented a load control table to track ETL executions using metadata from Apache Hop logs, recording timestamps and success/error flags for each run.
- Designed and implemented data warehouse MVP to enable efficient data integration and querying.
- Built a centralized data catalog and dictionary MVP to enhance data accessibility, understanding, and management.
- Proposed and developed an MVP for a data strategy and governance approach, including evaluation of current BI tools and capabilities to identify improvement opportunities.

Data Analyst - Freelance (Power Query, Excel, Power BI) Apr 2023 - Sep 2024

Food Industry BI services

Customer: Dulcenac Employee

- Processed data with Power Query.
- Visualized data and designed dashboards for maintenance work reports on industrial machines and technicians' performance.
- Automated Data input for continuous update in Excel of maintenance works.

College Education Data Analysis

Customer: ESPOL Teacher

- Processed and merged data into general tables.
- Visualized data and designed dashboards for the academic performance of students in Civil, Petroleum, Mechanical Engineerings.

Colegio Técnico Industrial Febres Cordero

- **Planned and conducted statistical analysis** of student council election results, reducing delivery time by 45%.
- **Provided ICT support** to the Rectorate for the accountability report for the 2022-2023 period, reducing delivery time by 33%.
- **Analyzed satisfaction surveys** from guests at institutional events, resulting in a 20% improvement in quality.

Electronic Design Assistant (Office 365, AutoCAD, Inventor)

Feb 2018 - Dec 2018

ASTINAVE – Astilleros Navales Ecuatorianos

- **Reported operational parameters** of the surveillance and navigation system to the technical team, enhancing decision-making by estimating equipment failures 7 days in advance, preventing damage and replacement costs, and saving 3% of the maintenance budget. This also improved the bug resolution time for the development team by 10%.
- **Updated the diagram design** of electrical, electronic, and mechanical systems, enhancing readability for technicians and improving operational efficiency by 20%.
- **Collaborated with finance**, procurement, electricity, and mechanics departments to facilitate communication for project development and decision-making.

PORTFOLIO PROJECTS

Data Analytics - Python

Oct 2023 – Jun 2024

- Developed a **logistic regression classifier model with Scikit-Learn to predict membership cancellations** at a sports center, achieving an accuracy of 91% and a precision of 81%. Also implemented customer clustering techniques using K-means and **hierarchical clustering** with dendrograms to characterize their behavior and facilitate retention strategy planning. https://github.com/ScinDBad/churn_prediction_fitness
- Conducted **exploratory analysis with Seaborn and evaluated the effectiveness of Contact Center operators** using measures of central tendency as thresholds. **Identified 29% of operators as ineffective** by quantifying tasks performance, normalizing the distance to defined thresholds for each task using Scikit-Learn, and performed a **one-sided t-test with SciPy** to statistically support the average levels of inefficiency found. https://github.com/ScinDBad/DA_proyecto_final/tree/main/Telecom
- Developed an **A/B test with SciPy to compare the conversion of views on an online shopping platform** between the original system and a recommendation system. Visualized results with Plotly and determined that the **recommendation system had 16% fewer conversions but showed 6 peaks in activity** during the seasonality of December 2020, which helped alleviate view traffic congestion. https://github.com/ScinDBad/DA_proyecto_final/tree/main/AB_test
- Conducted **exploratory analysis on a digital book repository via remote connection to the SQL database** using Pandas and **SQLAlchemy**. Identified the most reviewed book had with average rate of 3.71, as well as the major editor that published 42 books with a minimum of 50 pages. https://github.com/ScinDBad/DA_proyecto_final/tree/main/sql_bookdata

LANGUAGES

English – Intermediate

Spanish – Native