

Electronics and Telecommunications Engineer with skills in Python and SQL programming, including dashboard creation with Tableau for Data Storytelling. Focused on achieving results and analysis to meet and solve business needs. Seeking to apply my professional skills in data processing, analysis, and metrics interpretation.

WORK EXPERIENCE

Colegio Técnico Industrial Febres Cordero

Oct 2019 - Mar 2023

Second Vocal of the Executive Council (2022 – 2023)

- Planning and statistical analysis of the results of the student council elections for the period.
- ICT support to the Rectorate for the accountability report for the 2022-2023 period.
- Analysis of quality and satisfaction surveys of guests at institutional events (MS Office).

Electronics Teacher (2019 – 2023)

- Curricular Planning and training of students from Professional figure Consumer Electronics.

ASTINAVE – Astilleros Navales Ecuatorianos

Feb 2018 - Dic 2018

Design Assistant (Office 365, AutoCAD, Inventor)

- Report on the operating parameters of the CCTV network, Kinematic Signal Hub, and navigation system.
- **Technical data report on the results of work carried out by the electronics workshop staff.**
- Update of electrical, electronic, and mechanical 3D schematic diagrams.
- **Collaboration with the areas of finance, procurement, electricity, and mechanics.**
- Managed acquisition processes for goods and technical services for the rebuild of navy ships.

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
- Conducted an **exploratory analysis of the video game industry with Seaborn and Plotly. Used an API to fetch data and fill in 77.2% of remaining missing values after main depuration**, explored the sales and popularity of games and platforms having an average lifespan of 10 years, as well as the relationship between sales and scores. **Performed Welch's t-tests with SciPy to compare the average scores** of platforms and genres with similar sales and found a 47.8% probability that the difference in average ratings between XONE and PC is due to chance, suggesting similarity. <https://github.com/ScinDBad/gamEda>

Academic Publications

Collaborated on a research project about artificial intelligence in teaching technology in electricity, emphasizing its importance and impact on the Electrical Technology program at Instituto Superior Técnico Simón Bolívar, as well as discussing some of the available tools.
doi.org/10.33262/exploradordigital.v7i4.2778

EDUCATION

Data Analyst , Tripleten (Bootcamp Online)	Oct 2023 – Jun 2024
Mgs. Pedagogy for Technical Vocation and Educational Training , Universidad Bolivariana del Ecuador (Online)	Jul 2022 – Oct 2023
Ing. Electronics & Telecommunications , Escuela Superior Politécnica del Litoral	May 2010 – Feb 2017
SQL Course for Data Science (MySQL), A2 Capacitación (online)	Mar 2023 – Jun 2023
Python Course for Data Science, A2 Capacitación (online)	Jun 2023 – Sep 2023

TECH SKILLS

Python SQL Plotly Pandas Numpy Seaborn Tableau Matplotlib Sci-kit learn Scipy
Microsoft Software Suite Visual Studio Code Google Colab Project IDX

LANGUAGES English – Intermediate Spanish – Native