

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

TECH SKILLS

Python SQL Plotly Pandas Numpy Seaborn Tableau Power BI Matplotlib Sci-kit learn Scipy Autodesk
Microsoft Office 365 Jupyter Notebook Visual Studio Code Google Colab Project IDX Prompt-Engineering

STRENGTHS

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

Executive Council Member and Microcontroller programming teacher (Office 365, Autodesk, Arduino) *Oct 2019 - Mar 2023*

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.
- Curricular Planning and training of students from Electronics improving academic performance by 12%.

Electronic Design Assistant (Office 365, AutoCAD, Inventor) *Feb 2018 - Dic 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 electrical, electronic, and mechanical 3D schematic diagrams, 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.

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

LANGUAGES

English – Intermediate ●●●●● Spanish – Native ●●●●●