Industrial Engineer / Data Analyst

EDWING JIMENEZ

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Portfolio: **Edwngjs.github.io**
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Summary

With over 7 years of experience as a product engineer in the medical devices industry, I have successfully led projects resulting in substantial cost savings through decreased scrap rates and automation, while cutting production costs nearly in half. Transitioning into the Data Science field, I bring 4 years of expertise in analyzing large datasets to extract insights and enhance business performance. Proficient in statistical analysis, data visualization, and machine learning using Python and SQL, and I am driven by a passion for leveraging data-driven decision-making.

Skills

- SQL (SQL Server, MySQL, PostgreSQL)
- Python (Pandas, NumPy, SciPy, MatPlotLib)
- Excel (Lookup, Conditional Formatting, Pivot Tables)
- Lean Six Sigma
- Minitab
- Microsoft Power BI (Power Query, DAX)

Projects

Further details and projects in portfolio.

HR ANALYSIS AND PREDICTION MODEL BUILD – Personal Project
The main goals in this project are to analyze the data collected by the HR department and to build a model that predicts whether an employee will leave the company.

- Analyze correlations and perform descriptive statistics.
- Train, optimize and evaluate random forest and XGBoost algorithms.
- Compare models' results.

AIRPORT ANALYSIS – Personal Project
The objective of this project was to utilize SQL and Python for data retrieval, transformation, cleaning, and analysis of flight data. The primary goals were to identify causes of flight delays and explore correlations, as well as to analyze the revenues generated from these flights.

- Retrieve the flight data from the database using SQL queries.
- Load the retrieved data into Python as a pandas dataframe for data transformation and cleaning.
- Analyze the cleaned data to identify causes of flight delays and explore correlations between different variables.
- Analyze the revenue data associated with the flights.

BIKE STORE REVENUE DASHBOARD – Virtual Client's Project
The objective of this project was to create an interactive dashboard for a client's bike store to visualize and analyze revenue trends across multiple dimensions such as years, states, stores, and bike categories.

- Retrieve data from the database using SQL.
- Prepare the data for visualization by aggregating and structuring it appropriately.
- Design and develop an interactive dashboard using Tableau.
- Incorporate key metrics such as revenues by year, profitability by state, revenue trends, revenue per store, revenue per bike category, and identification of top customers.

Work Experience

BUSINESS DATA ANALYST – Parrotlabs – Remote   April 2024 - Present

- Creating and managing accurate test data sets, running unit tests, and analyzing A/B test results to deliver detailed, actionable reports.
- Analyze automated AI processes to identify opportunities for improvement and implement measurable changes to enhance efficiency.

FREELANCE DATA ANALYST – Remote   March 2020 – March 2024

- Leverage my experience in data analysis and visualization to provide actionable insights for clients across diverse industries.
- Transforming raw data into meaningful narratives that drive informed decision-making and business growth.

PRINCIPAL PRODUCT ENGINEER – Fresenius Kabi – Dominican Republic   February 2016 - Present

- Led product and process projects that have saved more than a million dollars by decreasing scrap rates around 20%, automating manual processes reducing Cost of production on almost 50%.
- Collect and analyze manufacturing process data using statistical tools, identifying patterns critical for ongoing process optimization.
- Translate complex manufacturing data into clear data visualizations and project presentations for stakeholders.

Education and Certifications

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING – Instituto Tecnológico de Santo Domingo

- *GOOGLE ADVANCED ANALYTICS* – *Google / Coursera*
- *DATA SCIENTIST: ANALYTICS* – *Codecademy*
- *PYTHON 3* – *Codecademy*
- *LEAN SIX SIGMA: GREEN BELT* – *Infotep / Fresenius Kabi*
- *IMPROVEMENT MANAGEMENT* - *Infotep / Fresenius Kabi*