# LUIS CORTÉS PACHECO

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## **Skills**

- SQL (Window and aggregation functions, joins, subqueries, CTE's)
- Python (Pandas, NumPy, MatPlotLib, scikit-learn, BeautifulSoup)
- Excel (VLookup, Conditional Formatting, Pivot Tables)
- Microsoft Power BI (DAX, Power Query, bookmarks)

# **Projects**

#### STUDY OF THE COMPOSITION OF THE WORLDWIDE ENERGY MATRIX - Personal Project

Novembre 2022

- Utilized Python to analyze data from power plants around the world and got insights about how is the worldwide energy matrix composed
- Analyzed the overall percentage of plants with clean energy sources in the world and also for top countries
- It was identified countries with the largest power generation capacity and also countries with highest and lowest percentage of clean energy generation

#### ANALYZING POWER PLANTS DATA WITH SQL - Personal Project

January 2023

- Utilized SQL Server and I proved that it was possible to perform the same queries from the Python project but in SQL
- Utilized aggregation functions, JOIN clauses and subqueries
- Utilized data manipulation and data query commands

## BAD CAR PURCHASE PREDICTION - Personal Project

April 2023

- Created a machine learning model to make predictions about if a car purchase is bad or not
- Performed EDA, feature engineering and hyperparameters tunning for the training dataset
- Utilized different ML techniques like logistic regression, decision tree, random forest and gradient boosting

### COFFEE STORES SALES DASHBOARD- Personal Project

June 2023

- Utilized Power Bi to create a totally interactive dashboard for the sales of a coffee shop company
- Utilized DAX, Power Query and bookmarks for the dashboard creation
- Created sales forecast charts, "what if" scenarios related to profit, custom slicers with bookmarks, etc

# KNOWING THE VEHICULAR MARKET WITH WEB SCRAPING - Personal Project

August 2023

- Utilized BeautifulSoup and Requests Python libraries to extract the HTML file from the mercadolibre website
- Performed EDA, created visualizations and got insights using pandas, matplotlib and other tools
- It was identified the average prices for vehicles in the Colombian market

#### Education

# BACHELOR OF MECHANICAL ENGINEERING – Universidad del Norte – Barranquilla, Colombia

December 2021

## DATA ANALYSIS WITH PYTHON: ZERO TO PANDAS - Online Course

November 2022

Introduction to data analysis covering the basics of Python, Numpy, Pandas, Data Visualization, and Exploratory Data Analysis. This course is offered on <a href="https://jovian.com">https://jovian.com</a> and has more than 90000 registered users. This is my course certificate: <a href="https://jovian.com">Certificate of</a> <a href="https://jovian.com">Accomplishment - LUIS FELIPE CORTÉS PACHECO - Data Analysis with Python: Zero to Pandas - Jovian</a>.

#### MACHINE LEARNING WITH PYTHON: ZERO TO GBMS - Online Course

April 2023

Introduction to supervised machine learning, decision trees, and gradient boosting using Python. This course is offered on <a href="https://jovian.com">https://jovian.com</a> and has more than 29000 registered users. This is my course certificate: <a href="https://jovian.com">Certificate of Accomplishment - LUIS</a>
<a href="https://jovian.com">FELIPE CORTÉS PACHECO - Machine Learning with Python: Zero to GBMs - Jovian</a>