



مبادرة رواد مصر الرقمية
Digital Egypt Pioneers Initiative

Project Title:
Sustainable Waste Management Analyst

Team Members:

أحمد عبد الله أحمد عبد الله
يوسف خالد حسن محمد الشافعي
محمود محمد محمود منصور
محمد عادل عبدالقوى محمود
محمد حسين السيد المنهراوى

Project Description and Team Roles

Brief Description:

This project involved analyzing and cleaning a large dataset concerning various environmental indicators, particularly focusing on waste management practices across different regions from 2014 to 2018. The project entailed translating non-English data, handling missing or duplicated entries, and generating insights into key indicators like inadequate waste disposal, employment in waste management, and recycling trends. Tools such as SQL, Excel, and Python were used to perform data cleaning, data visualization, and trend analysis.

Roles of Participants:

يوسف خالد حسن محمد الشافعي

- Worked on data cleaning and transformation using SQL.
- Handled column selection, translation, and missing data.
- Checked for duplicates and null values and exported the cleaned data for further use.
- Designed the dashboard for data visualization and insights presentation.

محمود محمد محمود منصور

- Processed large datasets in Excel.
- Focused on data organization using Excel's "Format as Table" feature for identifying key indicators and their units.
- Analyzed "Inadequate Final Disposal" using Python and worked on reported employment in waste management.

محمد عادل عبدالقوى محمود

- Analyzed waste generation and collection coverage using Excel, focusing on specific indicators such as "Generation per capita" and "Collection coverage."

محمد حسين السيد المنهراوى

- Worked with Python to analyze "MSW Management Cost" and "MSW Management Tariff."
- Performed cost breakdowns and comparisons of waste management tariffs across South America.

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أحمد عبد الله أحمد عبد الله

- Focused on Excel analysis of waste management indicators, particularly open dumps and dump sites.
- Also contributed to the analysis of target reduction and waste handling percentages.
- Reviewed the final report and prepared the presentation.