

Week 1

Practice

Data Cleaning and Visualization Using Google Sheets

Dataset Description:

You have been provided with a [dataset](#) containing the following columns:

- Country: Name of the country.
- Income per Person: Average income per person in the country.
- Internet Use Rate: Percentage of the population using the internet.
- Urban Rate: Percentage of the population living in urban areas.

Objective:

Your task is to clean the dataset and create visualizations to explore the relationships between *income*, *internet use*, and *urbanization* across different *countries*.

Steps to Complete the Exercise:

1. Load the Dataset into Google Sheets:
 - Open Google Sheets and create a new spreadsheet.
 - Copy and paste the dataset into the spreadsheet or use the IMPORTDATA function to import data from a CSV file.
2. Data Cleaning and Formatting:
 - Identify and handle missing or erroneous data:
 - Check for any blank cells or N/A entries in the dataset.
 - Replace any missing or erroneous values with appropriate data (e.g., average income per person for missing values).
 - Ensure consistent formatting:
 - Convert any text values to numbers if necessary.
 - Remove any extra spaces or special characters from the data.
 - Rename column headers to be more descriptive if needed.
3. Create Basic Visualizations:
 - Create a scatter plot to visualize the relationship between *income per person* and *internet use rate*.

- Create a bar chart or pie chart to compare *internet use rates* across different countries.
- Create a histogram to visualize the distribution of *urbanization rates* among the countries.

4. Enhance Visualizations:

- Add appropriate titles and labels to each chart to provide context and clarity.
- Customize the appearance of the charts by adjusting colors, fonts, and styles to improve readability.