



# ENVIRONMENTAL IMPACT DASHBOARD

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# DATASET INFORMATION

- **Dataset Name:** ENVIRONMENTAL IMPACT DATA
- **Source:** Public dataset Kaggle
- The provided dataset contains 50,000 records with the following columns:
  - - ID
  - - Carbon Emissions (kg)
  - - Water Consumption (liters)
  - - Energy Usage (kWh)
  - - Waste Generated (kg)
  - - Recycling Rate (%)
  - - Air Quality Index (AQI)
  - - Region
  - - Industry
  - - Product Type
  - - Category
  - - Subcategory
  - - Compliance LevelData

# FUNCTIONAL REQUIREMENTS

- **Filters:**
  - Year
  - Region
  - Industry
  - Product Type
  - Compliance Level
- **KPI indicators:** Highlight key metrics for each region.
  - Total Carbon Emissions
  - Average Recycling Rate
  - Total Energy Usage
  - Total Water Consumption

# **FUNCTIONAL REQUIREMENTS**

## **Charts and Visuals:**

### **1. Bar chart:**

→ Display total water consumption by region.

### **2. Line chart:**

→ Display trends of energy usage over time.

### **3. Heatmap:**

→ Show recycling rates by industry and region.

### **4. Pie chart:**

→ Display the distribution of compliance levels.

### **5. Scatter Plot:**

→ Show the relationship between carbon emissions and recycling rates & identifying areas for improvement.

# DASHBOARD



## Environmental Impact Dashboard

Filter



# **INSIGHTS**

- Carbon emissions, energy use, and water use are all very high.
- Water usage is similar across all regions.
- Energy usage changes a lot by year (unstable trend).
- Some industries recycle well, but some, like textiles, recycle less.
- Compliance levels are average, not strong.
- High recycling does not fully control high emissions.

# **CONCLUSION**

- This dashboard gives a clear picture of the overall environmental situation.
- We can see that carbon emissions, water use, and energy use are very high, and some industries and regions need to improve their recycling and compliance levels.
- Overall, this dashboard can help in making better decisions to protect the environment and support sustainability.