# **Climate Change Data Analysis Report**

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Dataset: owid\_climate\_data.csv
Python File: [your\_script\_name.py]

### 1. Overview

### Objective:

Provide an overview of the entire report. What is the context, where did the data come from, how was the data treated and analyzed, what were the findings.

### **Dataset Summary:**

Provide a top level summary of the dataset.

- co2: CO<sub>2</sub> emissions per country per year (metric tons)
- country: Country name
- Etc.

## 2. Step-by-Step Data Analysis Pipeline

### Step 1: Data Import & Cleaning

#### What was done:

- Imported the CSV using pandas
- Dropped rows with missing values in co2 or temperature

### **Code Snippet:**

```
python
CopyEdit
import pandas as pd

df = pd.read_csv("owid_climate_data.csv")
```

```
df = df.dropna(subset=["co2", "temperature"])
df.head()
```

### Screenshot / Output:

(Insert screenshot of df.head() output here)

### **Summary:**

Brief Summary of Findings.

### **Step 2: Exploring Sets & Writing Functions**

#### What was done:

- Created a set of all unique countries
- Defined a function to extract data for a given country and year range

### **Code Snippet:**

#### Screenshot / Output:

(Insert screenshot of India data from 2000–2020)

### **Summary:**

Brief Summary of Findings.

## 3. Summary of Findings

### **Key Observations (without interpretation):**

Example: The CO<sub>2</sub> emissions varied widely between countries in 2020, with some outliers. A gradual upward trend in average global temperature is visible over the years. [...]

## 4. Appendix

### **Included Files:**

- Python Script: climate\_analysis.py
- etc.