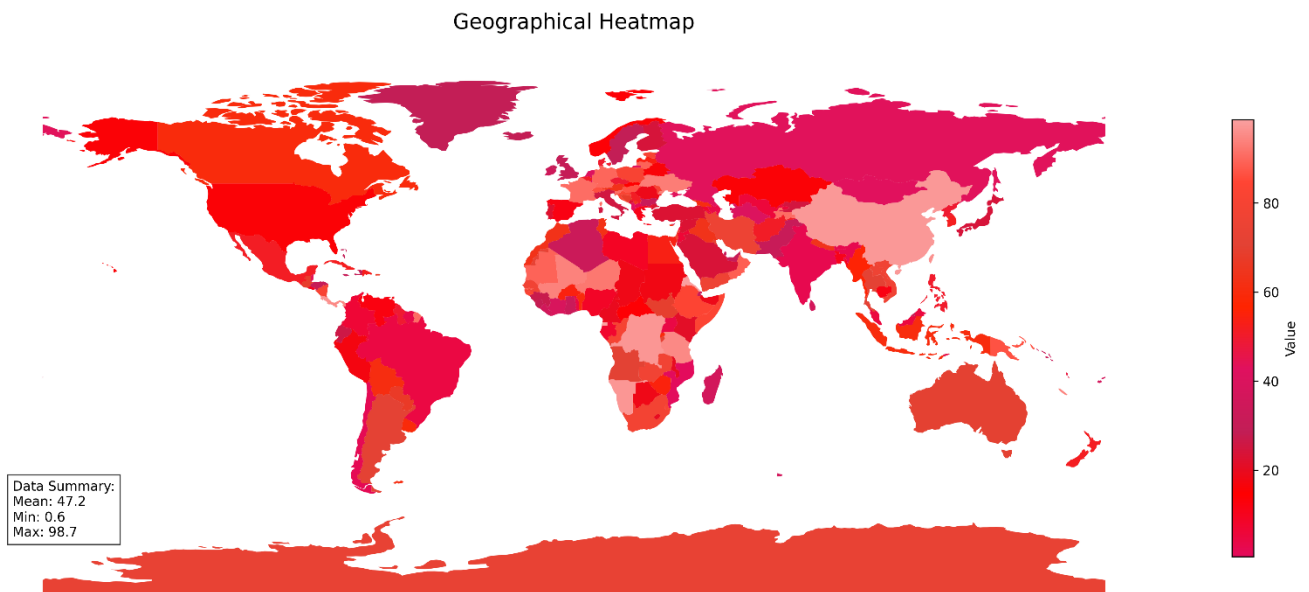# Generating Geographical Heatmap:

1. Task Description

The task involves creating a geographical heatmap visualization using Python libraries (GeoPandas, Matplotlib) to display data across different countries. The program reads geographical data from a shapefile and generates a color-coded map with custom styling and statistical information.

2. Task Output Screenshot

3. Widget/Algorithm Used In Task

- **GeoPandas:** Used for handling geographical data and reading shapefiles
- **Matplotlib:** Primary library for creating the visualization and plotting.
- **Pandas:** Used for data manipulation and merging operations.
- **NumPy:** Utilized for random data generation and numerical operations.
- **Custom Color Map:** Implementation of a custom red-themed color gradient using LinearSegmentedColormap.