Analysis of Global Development Indicators with World Bank data

Student Name: Kinza Hassan Student ID: 22061674

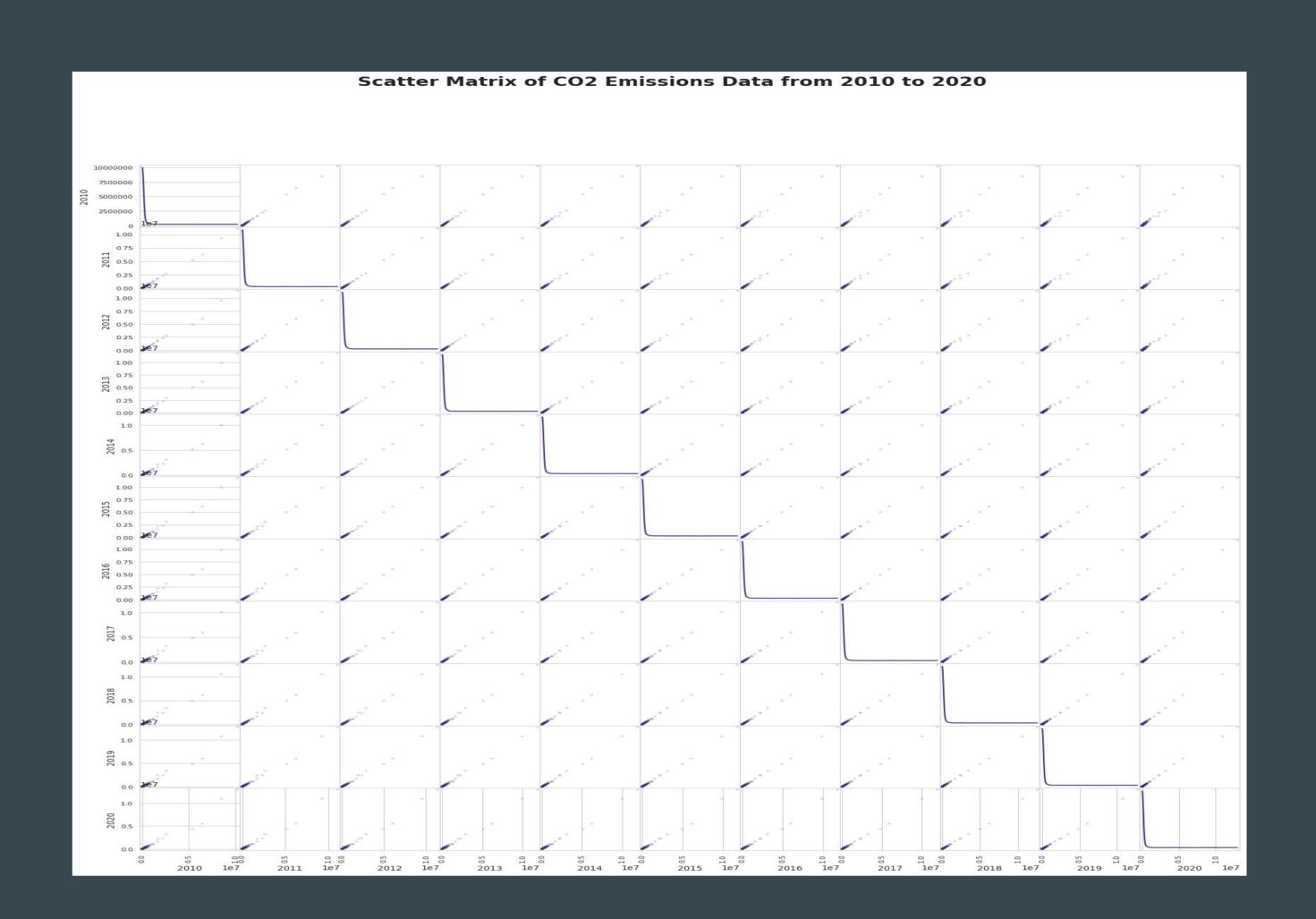
https://github.com/kinzahassan15/Clustering2

Abstract

The study is about of the CO2 emissions among various countries from 1999-2020 and the GDP was per kg 2015\$ US. The data collected from sources such as World Bank involves annual CO2 emissions data for various countries. The analysis intends to identify trends and patterns in CO2 emissions over the years. It provides visions into the effectiveness of the global and national policies intended at reducing carbon footprints. The results show meaningful variations in CO2 emissions among various countries and timespans, highlighting the need for tailored strategies to address climate change.

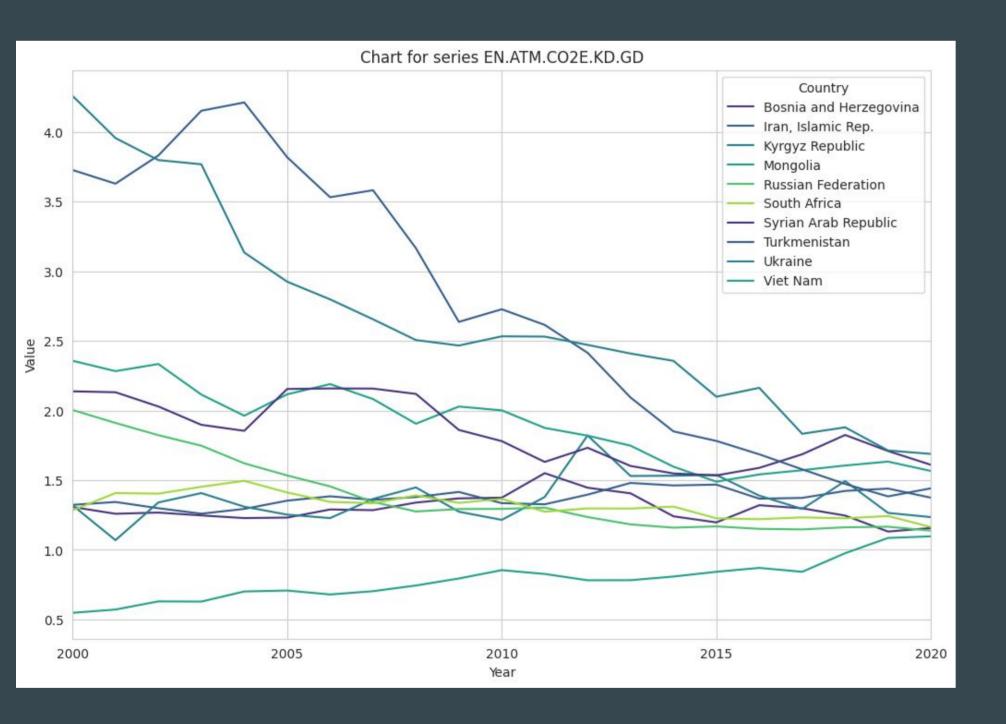
Introduction

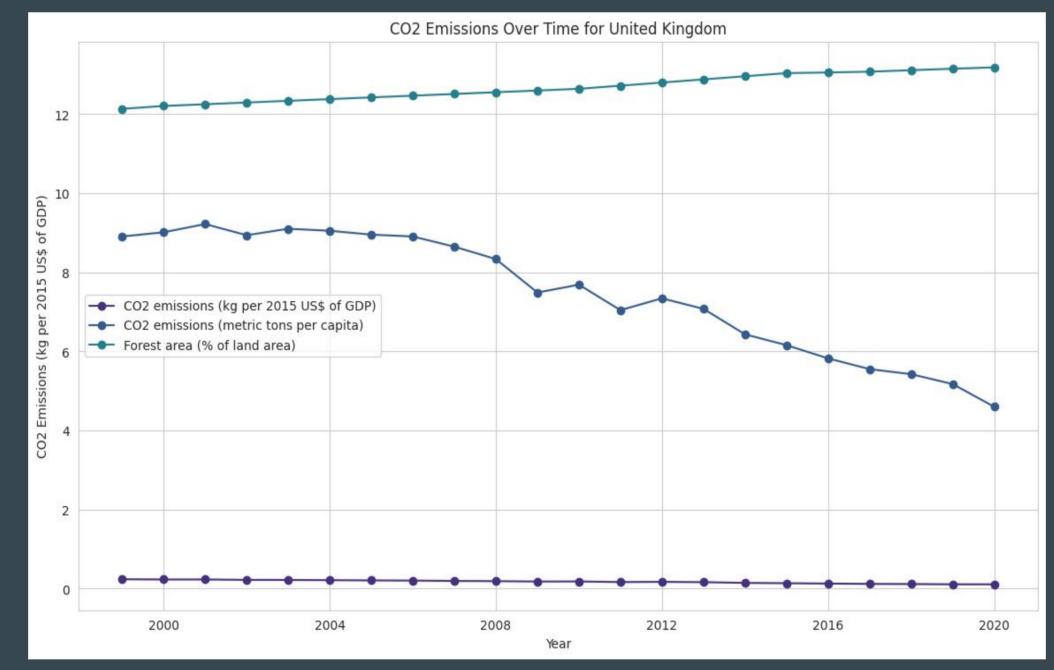
Climate change is one of the challenging issues of our time, led largely by the raise in greenhouse gases e.g. CO2. It is extremely crucial to understand the patterns for developing effective policies to alleviate climate change. This study focuses on investigating CO2 emissions GDP of 2015\$ per kg across multiple countries from 1999-2020. By observing this data, we endeavour to provide insights into the progress made by various countries in reducing their carbon footprints and identify areas that involve more attention.

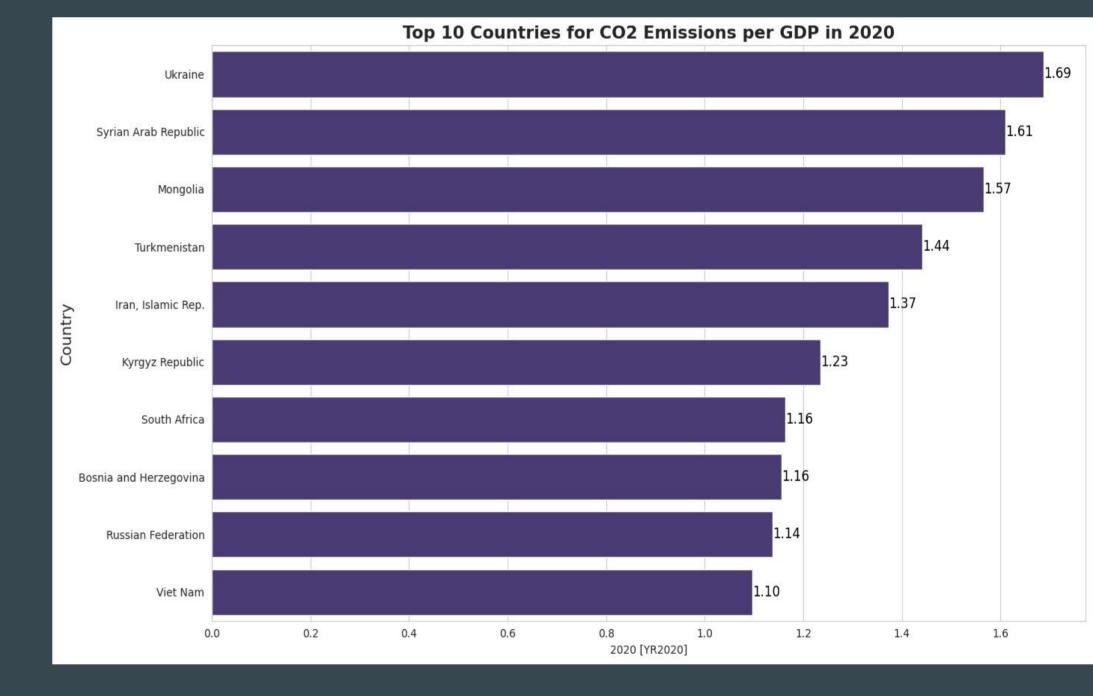


Methodology

We obtained dataset for this study from the world bank which presents annual CO2 emissions data for multiple countries. The dataset contains CO2 emissions for GDP of 2015\$ per kg for each country from 1999-2020. This investigation was conducted using python and panda library to clean, process and evaluate the data. It involves three process data cleaning, processing and analysing. Data cleaning will deal with all the missing values and assures data consistency while processing identifies trends and patterns whereas analysis use the statistical methods to analyse and generate useful insights.







Results and Conclusion

The analysis shows significant modifications in CO2 emission among various countries and timespans, with revealing some consistent decrease due to efficient policies. Whereas other displayed fluctuations and increasing trends. These insights emphasize the significance of tailored strategies as various countries face various challenges. Policymakers must keep these variations in mind while developing and implementing applicable and sustainable climate policies. Reduction in carbon footprint varies by the for understanding need robust country-specific approach.

