



Effect of CO2 Intensity on Climate Change

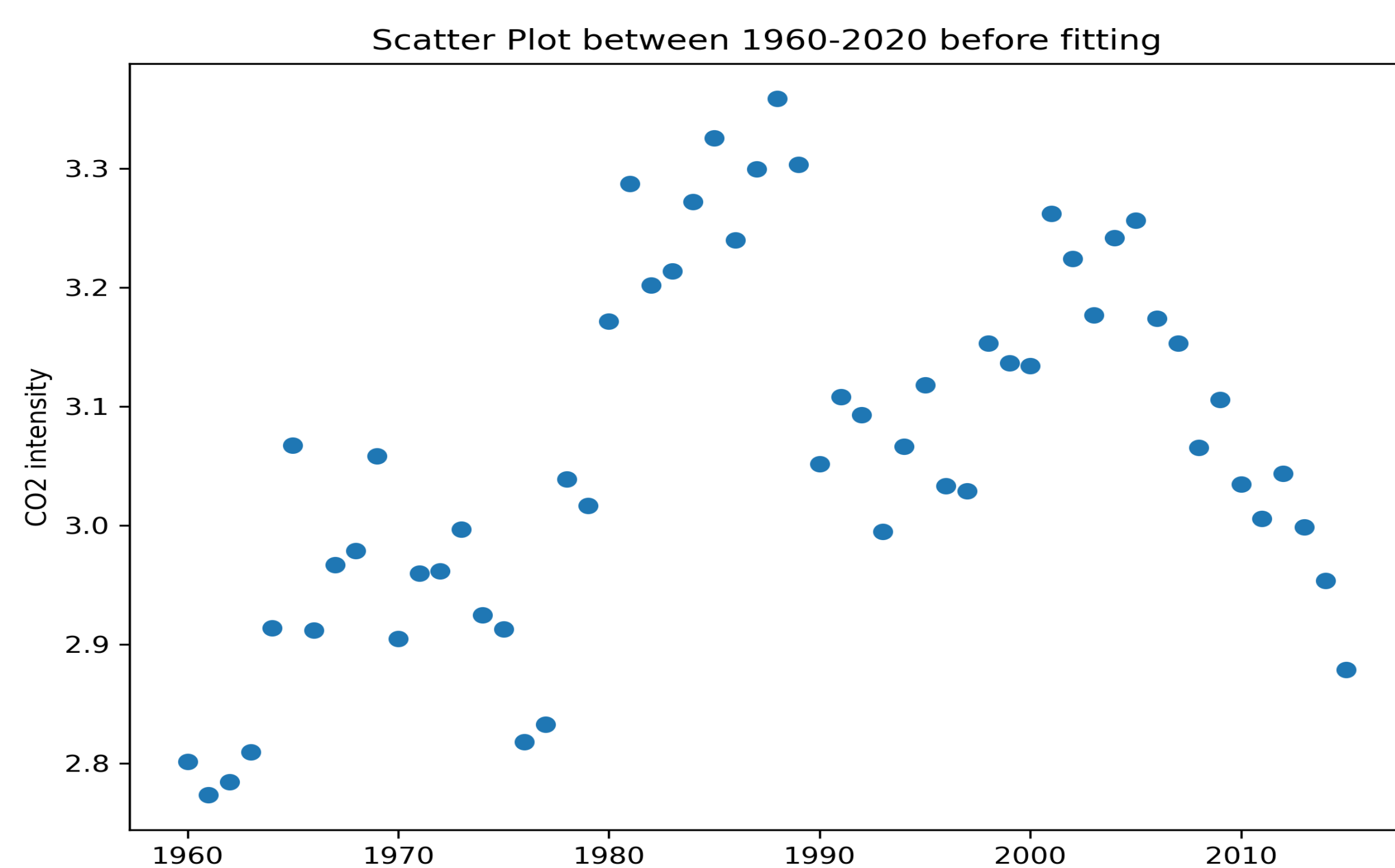
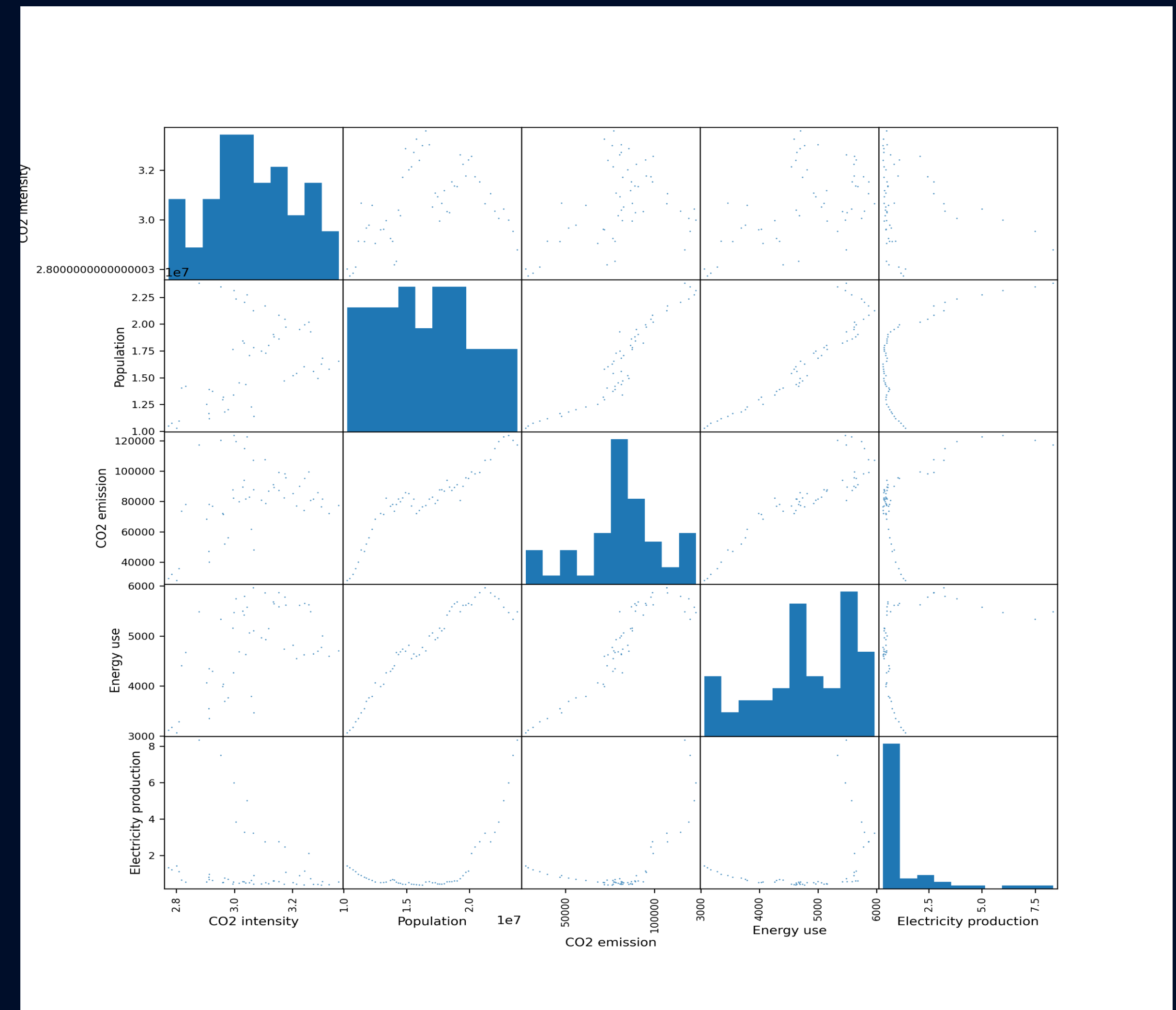
Github Link :<https://github.com/Bubly28/Clustering-and-fitting.git>

Introduction

Finding out how much CO2 intensity has contributed to climate change since 1960 in Australia is the main objective of this analysis. By analysing this data, it is possible to detect the effects of CO2 intensity and take the necessary action.

Analysis

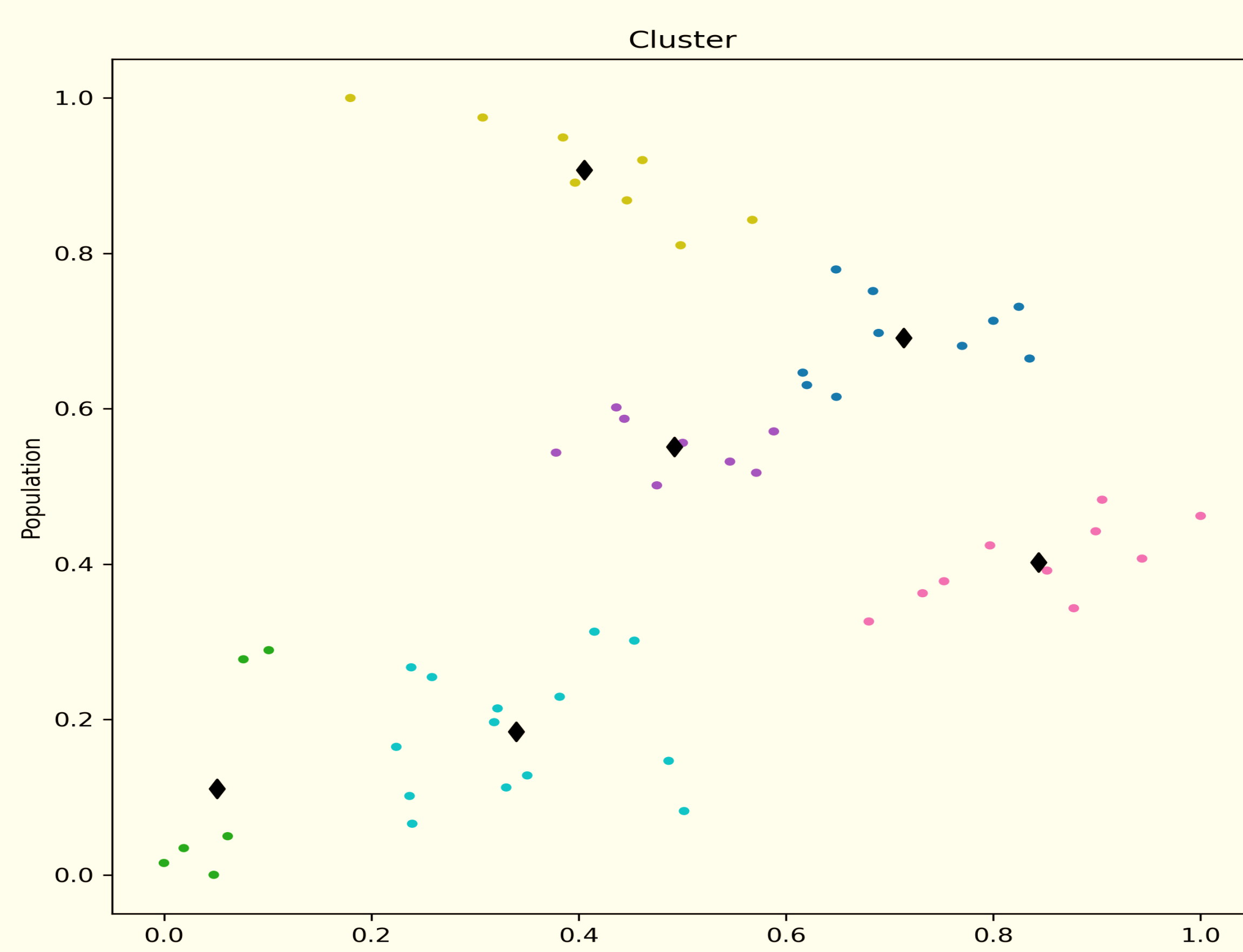
- CO2 intensity over the years 1960 – 2020
- Comparing the contributions of indicators such as CO2 intensity, Population, CO2 emission, Energy use and Electricity production on Climate Change
- Finding the error ranges
- Predicting the future of CO2 intensity
- Finding the trend of CO2 intensity in Australia
- Clustering CO2 intensity and Population in Australia



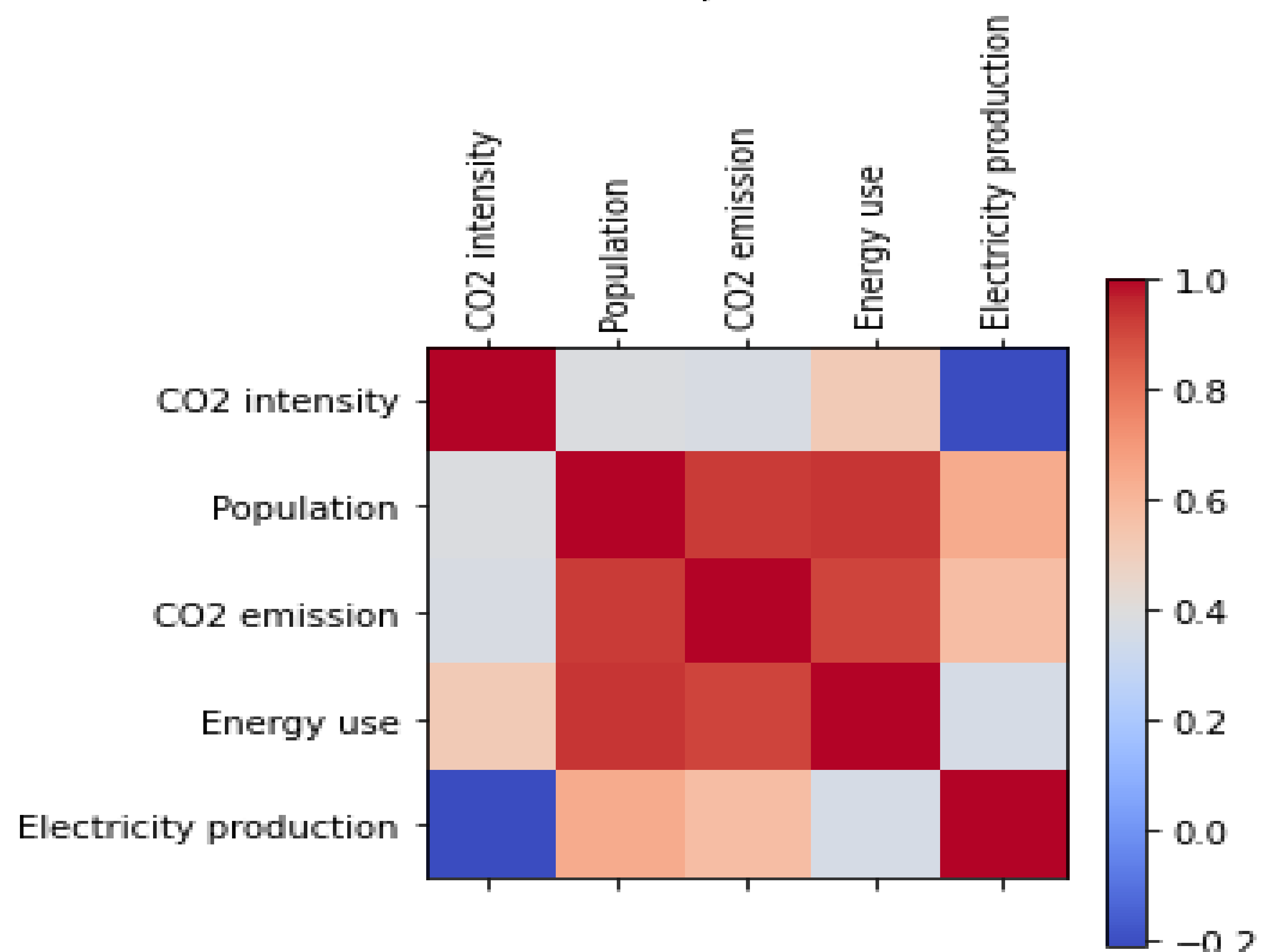
In Australia, the level of CO2 has varied throughout the last 60 years. After 2005, there was a significant reduction in CO2 intensity.

According to the findings, CO2 intensity could grow in 2030 and 2040. The CO2 intensity ranges from 3.1114966173299154 (the minimum) to 3.3598580171194956 (the maximum), in 2030.

Likewise, the values for 2040 are 3.1394677608178663 and 3.4155638843650773.



Heatmap (Australia)



Conclusion

Population density and CO2 concentration both significantly influence how the climate evolves. According to the statistics, the growing population, the expansion of alternative energy sources, and CO2 generation are all contributing factors to the growth in CO2 intensity. In order to make informed judgements about climate change and sustainable economic growth, this study will be helpful.

