ELECTRICITY CONSUMPTION IN THE WORLD

The research is aimed towards understanding the distribution of countries which consume electricity the most. Production and distribution of energy is a very costly and tedious process. Understanding the demand makes it easier for the production houses to meet demands better.

INTRODUCTION

From the world bank climate data , The electricity consumption indicators have been taken and combined for this research to understand the consumption of electricity by similar group of countries.

OBJECTIVE

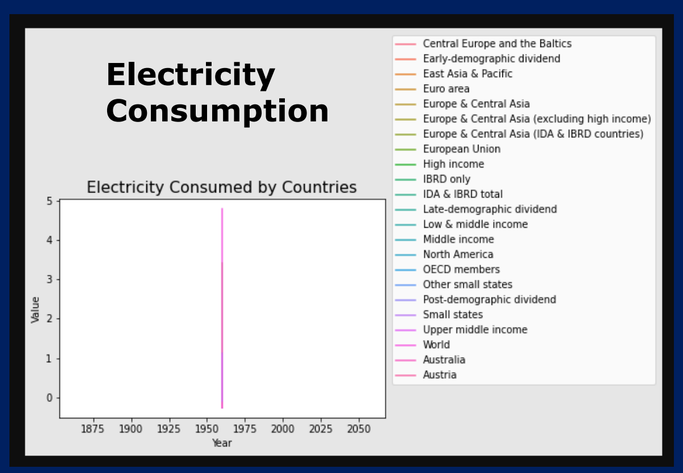
To analyze the global electricity consumption data and create clusters of countries to undertand which ones stand similar to each other where as also isolate others which are not quite significant.

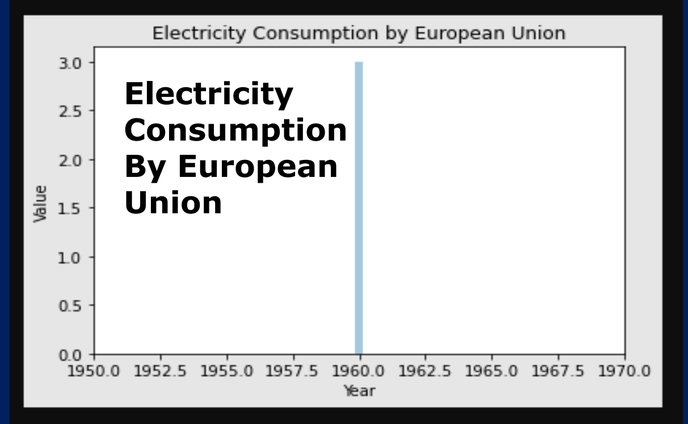
METHODOLOGY

These methods include

- Statistical Analysis
- Comparison studies
- Experiments

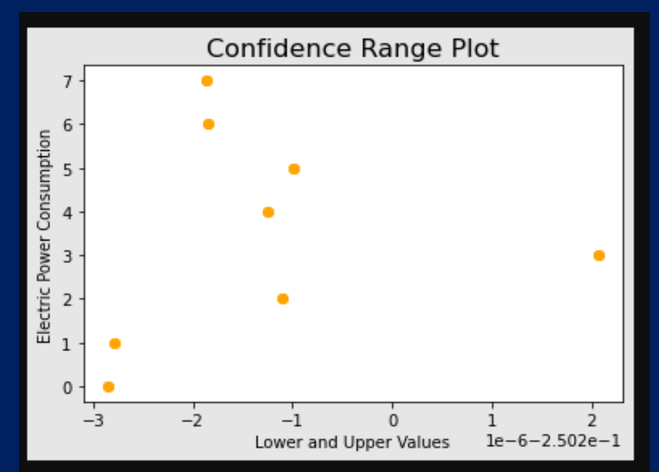
ANALYSIS

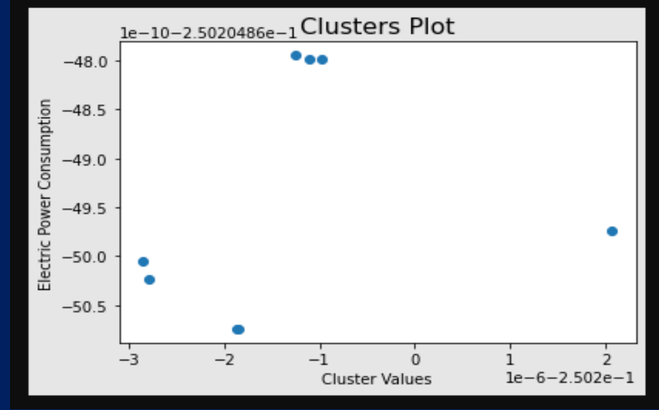


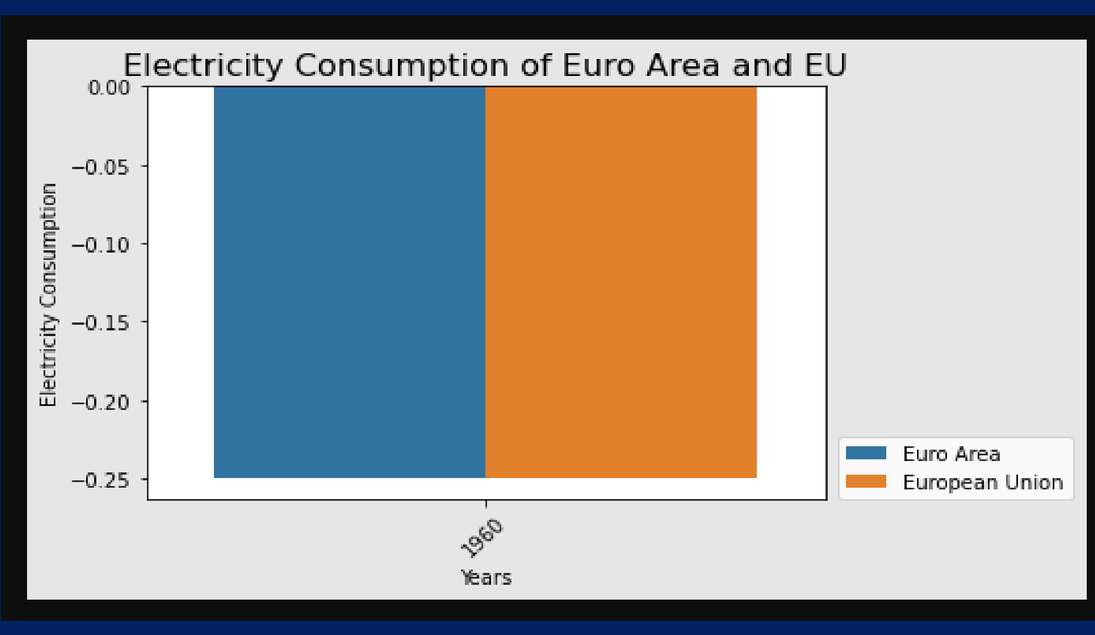


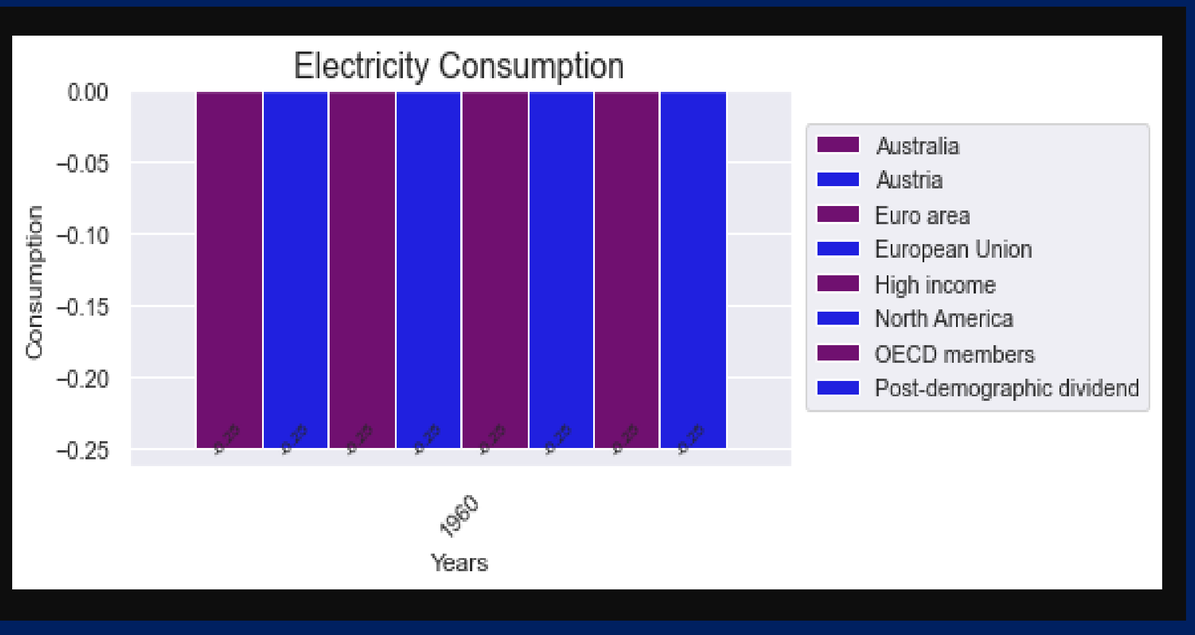
The clustering of countries into cohorts enables the understanding of one countries behaviour based on another country. A country identified belong to one of these clusters is expected to have a higher electricity consumption compared to the others from cluster 1 as an example.

Many other smaller clusters can be formed by increasing the centroids in the model definition if the insight is required









RELATED LITERATURE

https://statista.com/statistics/280704/world-power-consumption/#:~:text=Global%20electricity%20consumption%201980-2019&text=The%20world's%20electricity%20consumption%20has,increased%20by%20roughly%2075%20percent.

CONCLUSION

The electricity consumption patterns can be easily identified between countries similar to each other. Any anomaly or an other change in the data calls for attention, thus making sure the data is always integral.

RESULTS/FINDINGS

The clusters 0 and 2 are very significant in the data showcasing electricity consumption.