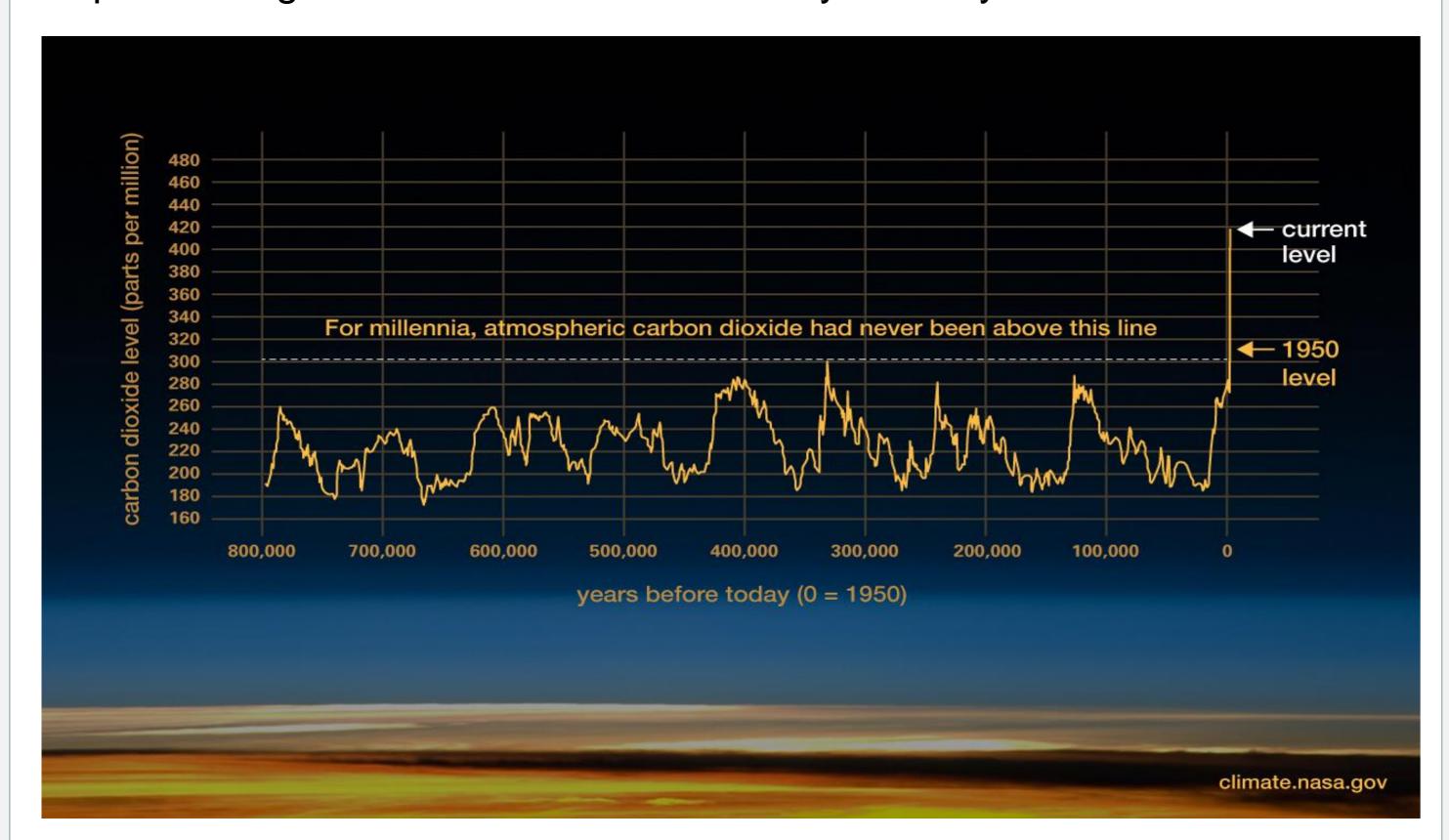
Climate changing factors

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Introduction

Climate change refers to long-term change in weather and temperature patterns. These changes chttps://climate.nasa.gov/an be natural, such as through variations in the solar cycle. But since mid-1800 the main cause for rapid increase of climate change is because of human activities and it is proceeding at a rate not seen over many recent years.



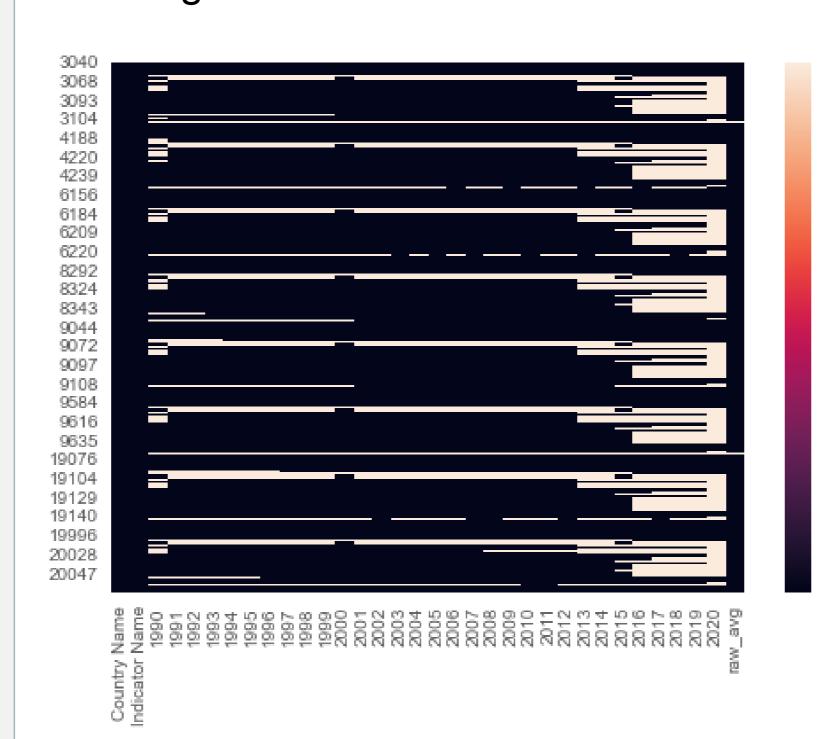
Source: https://climate.nasa.gov/

My goal for this assignment is to analyse the data which is publicly available, starting from latter 1900s to recent 2020 including several factors in every country.

Preparation Raw data (world Bank Database) At this stage collected data will be cleaned, re-formed, re-Data Cleaning shaped and eliminate garbage values. Also handling missing values and inconsistent values are some core tasks At this stage data is normalized. Fitted and clustered based on any preferred algorithm. Prediction models are **Processing Data** created and data will be trained Performing different calculations to get additional metrics, combining additional data attributes from variety of **Analysing Data** sources, creating different views of data are key tasks Interpreting Data Creating visualizations from processed data. i.e: Plotting

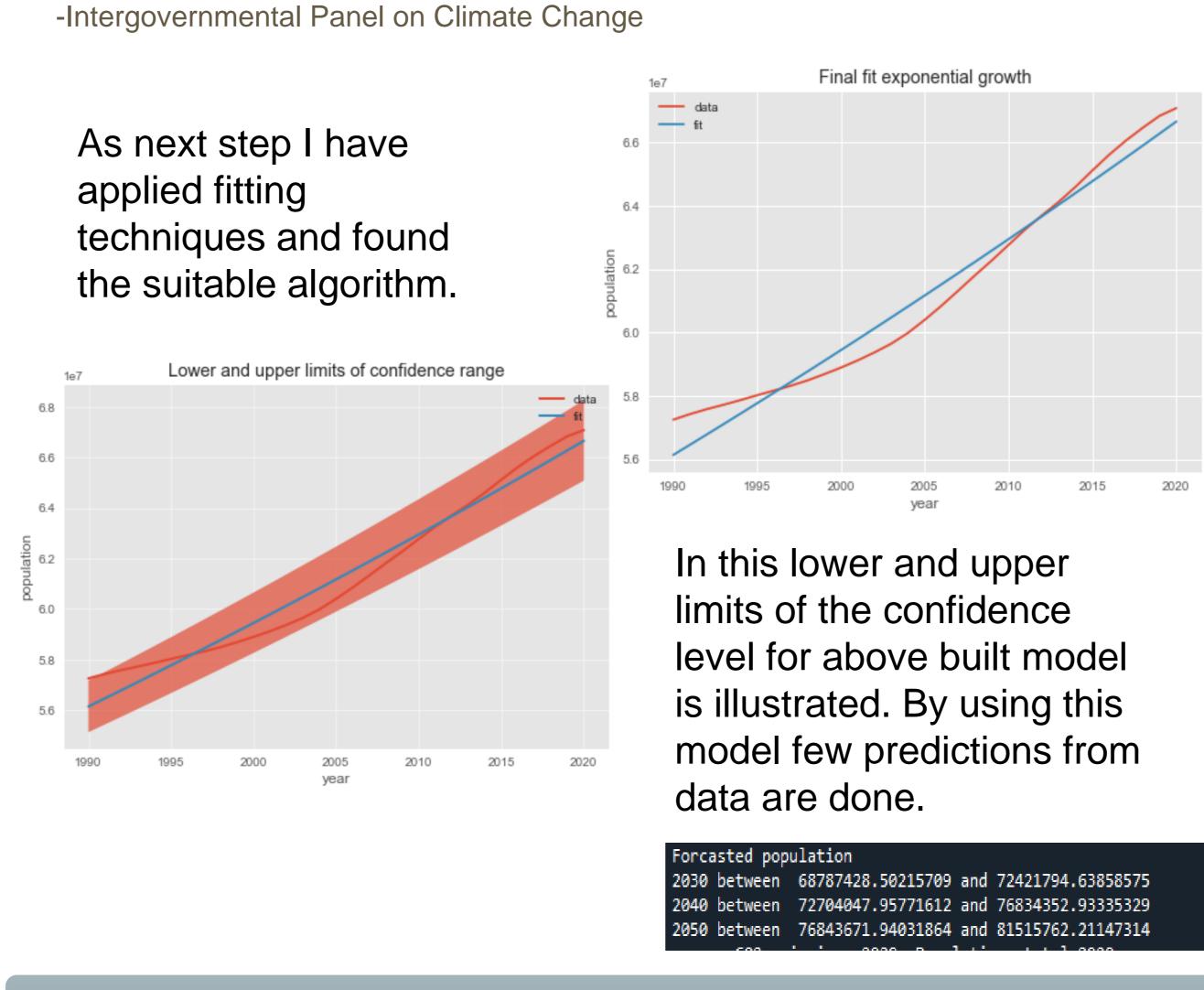
Process

Raw data from the source is acquired and thoroughly studied. Then I have listed down the challengers and corresponding actions to overcome them. In data pre-processing phase I have identified the missing data and handled them.



This image shows how the data was available in original format. I have taken measures to eliminate the gaps by eliminating the missing values.

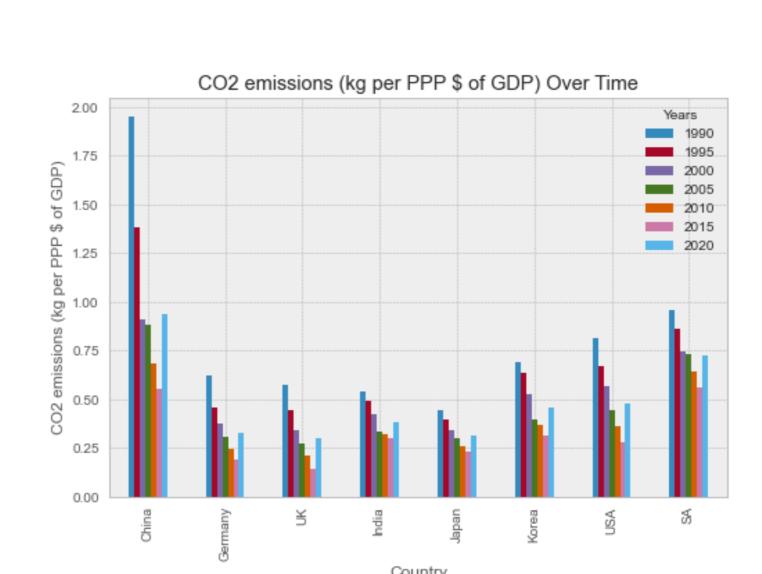
"Scientific evidence for warming of the climate system is unequivocal."



References

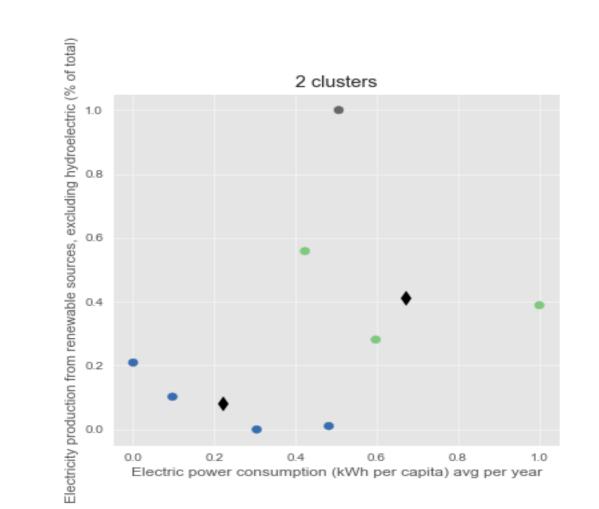
Analysis

Data distribution between electric power consumption (kWh per capita) and electricity production from renewable sources, excluding hydroelectric (% of total) are identified by clustering mechanisms.

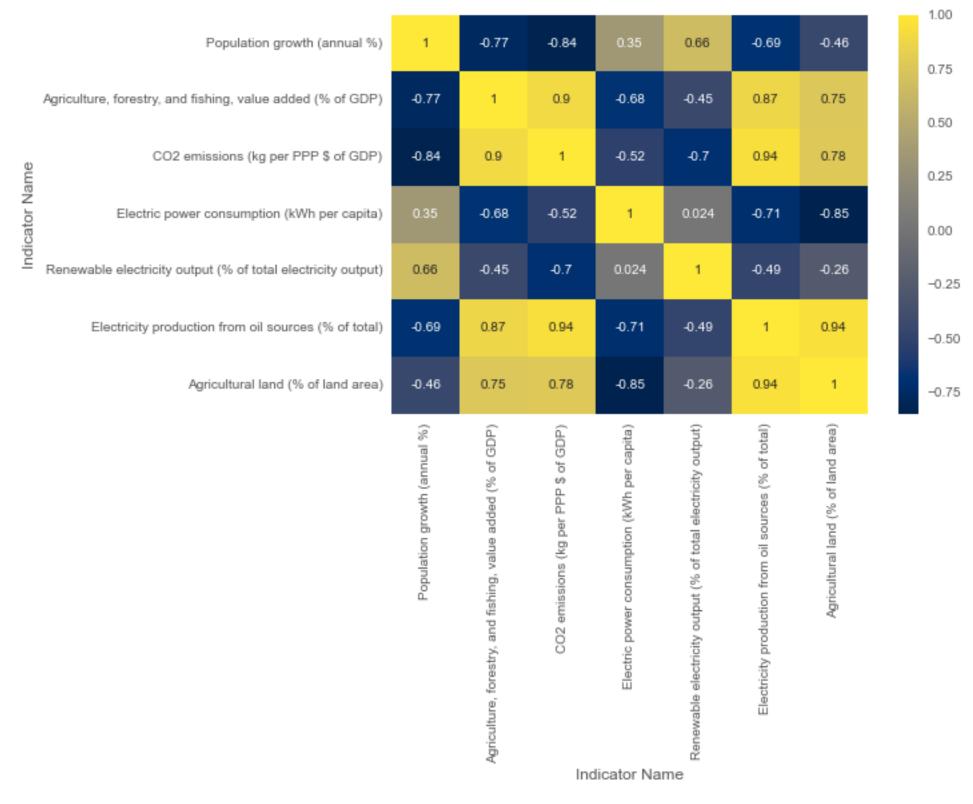


Hence we can assume that whole globe shows a same pattern of CO2 emission.

This correlation
heatmap depicts
the relationship
between key factors
towards climate
change. As we can
see here CO2
emission is highly
positively correlated
with Electricity
production with oil
sources.



As per this bar plot it is clearly visible that CO2 emission per capita is gradually decreased over the two decades until 2015 and then again showing a significant rise in year 2020. The same pattern is shown in all the selected countries for this analysis. Countries are chosen in a way that all the continents are represented.



Conclusion

For global climate changes, CO2 emission, population growth, energy usage, productions with oil sources and emission of various gases are highly contributed. With the global competition, every country make their way towards massive productions to improve their economies. But none take measures to see the risk of global climate change and it's impacts to the living. Analysing these data and facts, time has come to think about this without a further do. Whole globe should consider this as a TOP PRIORITY before it is too late.