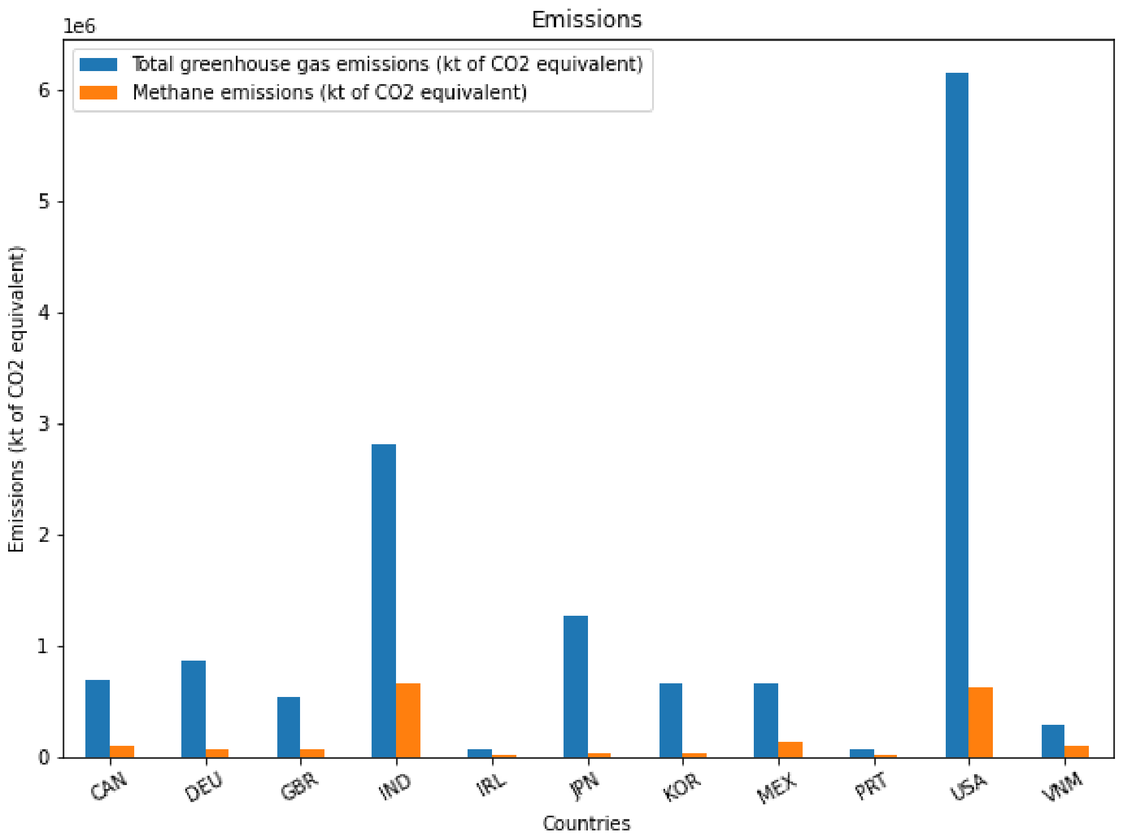
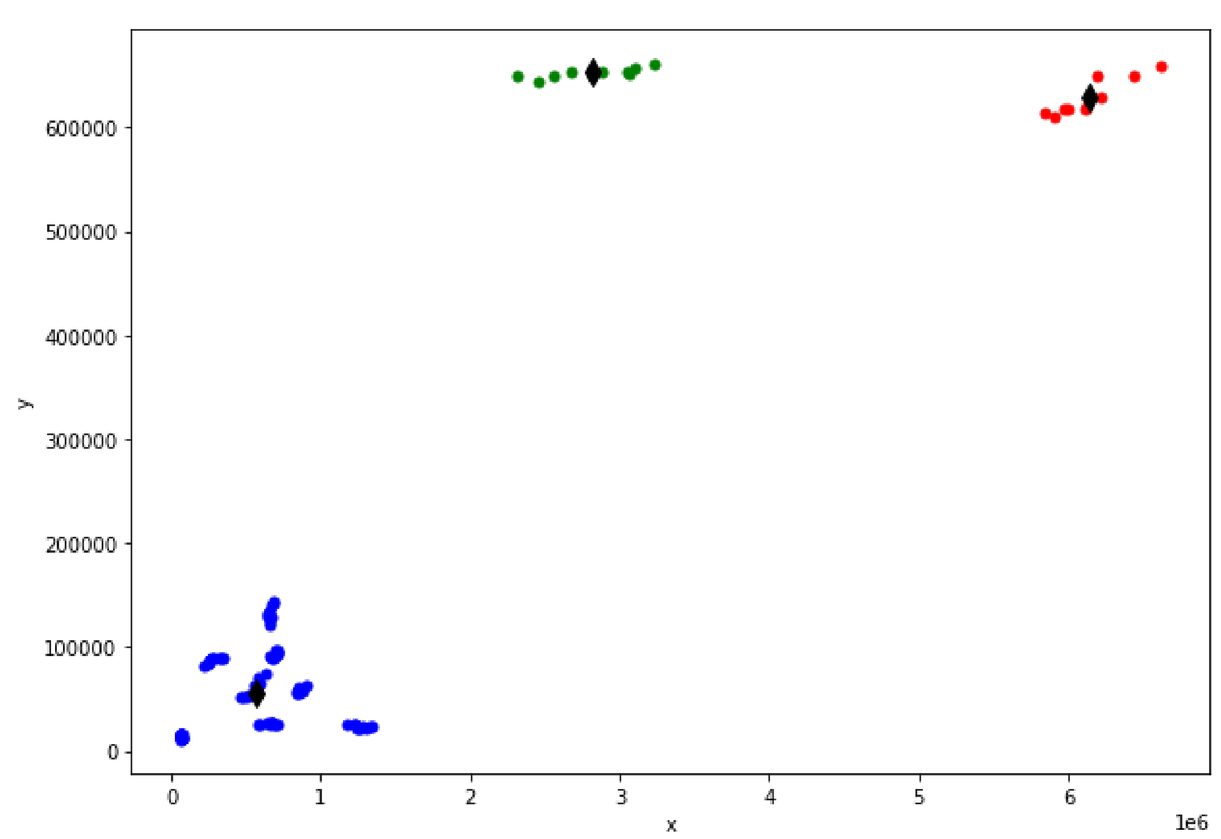
Clustering and fitting on Climate change from World Bank Data

For this analysis, 10 countries were chosen on climate change category from world data bank with indicators providing data for Total Greenhouse gases emissions and Methane gas emissions across the years.

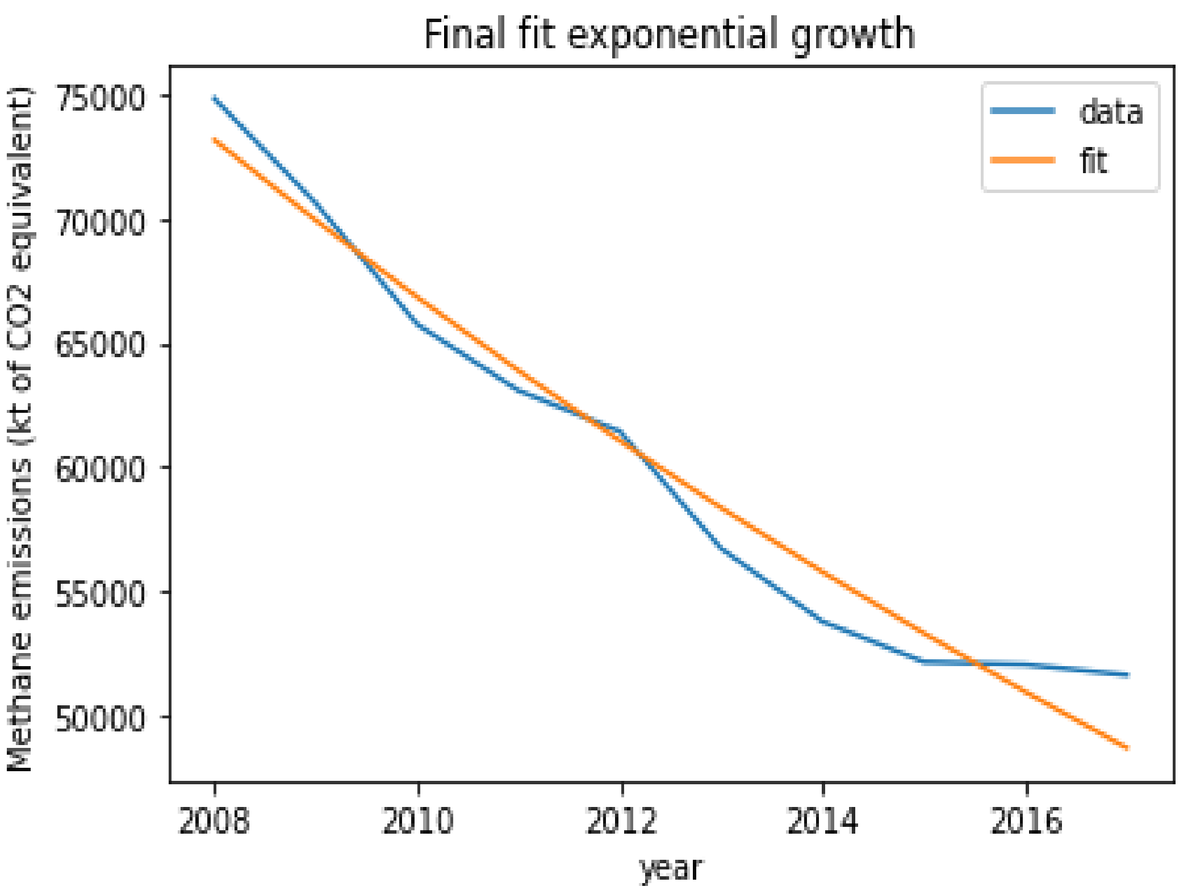
The clustering and fitting with dataset has been made and reported.



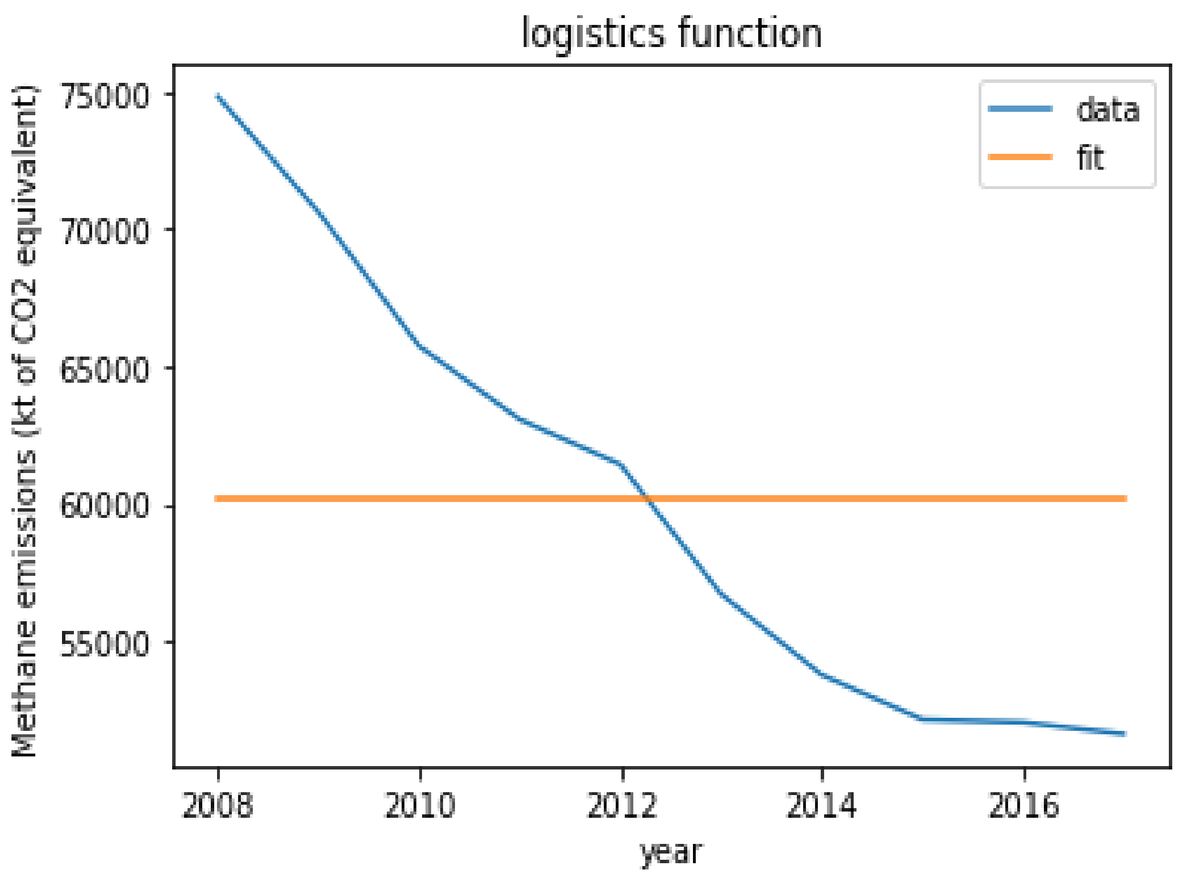
The above bar graph represents the mean total greenhouse gases and methane gas emissions in all the countries across the years. USA and India appears to emits more greenhouse gases.



The above graph represents results of K-means Algorithm which has been used with 3 clusters separated based on their similarities.



The above graph is the final fit from exponential growth model by appropriately choosing the start value and exponential factor. The curve turned out to be a good fit.



The above graph is the final fit from the logistic function from choosing start value and logistic factor and year. The curve didn't fit well.