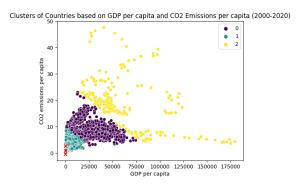
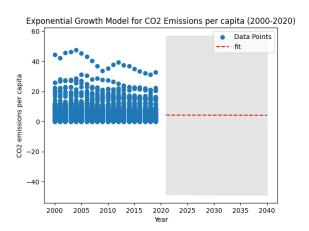
Name: Saqib Saddique

Title: "Exploring Climate Change Indicators: A Comparative Analysis of Clustering and Trend Modelling using World Bank Data"

- https://github.com/saqibsaddique355 /Clustering-Assignment.git
- https://data.worldbank.org/indicator/ EN.ATM.CO2E.PC
- https://data.worldbank.org/indicator/ NY.GDP.PCAP.CD

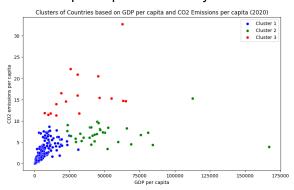


Graph is a scatter plot that shows the clustering of countries based on their GDP per capita and CO2 emissions per capita over the period from 2000 to 2020. The colors represent the clusters obtained using the KMeans algorithm



The second graph shows the trend of CO2 emissions per capita over time for all countries from 2000 to 2020. It includes a

fitted linear model and a confidence interval that shows the predicted range of CO2 emissions per capita for future years.



The third graph shows the latest data (2020) for GDP per capita and CO2 emissions per capita, and the countries are grouped into three clusters based on KMeans clustering. The graph provides insight into the distribution of countries by cluster and allows for a comparison of trends within each cluster.

Clust	er 2:		
	Country	GDP_per_capita	CO2_emissions
680	North America	63198.701318	14.753530
1118	Australia	54941.434179	15.253618
1198	Bahrain	25869.112913	22,259583
1438	Brunei Darussalam	30748.737487	15.957155
1578	Canada	46328.671841	15.430613
2670	Kazakhstan	9812.595808	11.456938
2730	Korea, Rep.	31902.416905	11.799325
2750	Kuwait	30667.348220	20.861949
20 40 60 80	Africa Western and Ce Arab Caribbean small s Central Europe and the Ba	World 6384.0663 tates 10429.3320	4.2726 40 5.1023
Clust	er 3:		
	Count	,	
180	Euro ar		
200	Europe & Central As		
260	European Uni		
320	High inco		
700	0ECD membe		
760	Post-demographic divide		
1018	Andor		
1138	Austr	ia 50070.40334	8 7.2939