# ANALYSIS OF WORLD BANK CLIMATE CHANGE DATASET

## THE DATASET

#### The dataset is accessible through the following link:

https://api.worldbank.org/v2/en/topic/19?downloadformat=csv

	Country Code	Indicator Code	1960	1961	1962	1963
4	ABW	SP.POP.GROW	NaN	2.236462	1.432843	0.823502
80	AFE	SP.POP.GROW	NaN	2.539822	2.575182	2.606839
156	AFG	SP.POP.GROW	NaN	1.898499	1.965805	2.029830
232	AFW	SP.POP.GROW	2.034308	2.085972	2.133725	2.173361
308	AGO	SP.POP.GROW	NaN	1.392891	1.383296	1.256405

### **K-Means Clustering**

Involves Assigning examples to clusters in an effort to minimize the variance of each cluster

#### **OPTICS Clustering**

Involves creating an augmented ordering of the database representing the density-based clustering of structure of a dataset

### **Curve Fitting**

is the process of constructing a curve, or mathematical function, that has the best fit to a series of data points Curve Fitting of Population Growth Rate of Germany from 1960 to 2020. It can be seen that the fitted curve is a sinusoidal curve which varies slightly with the original data points as shown by the line plot







