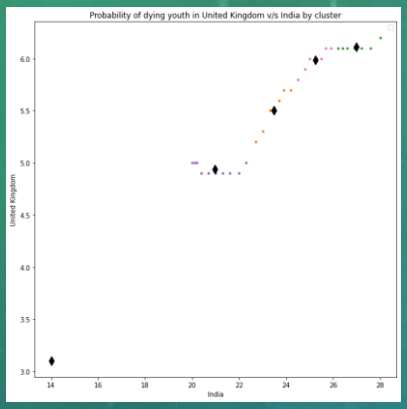
Probability of dying youth ages 20-24 and Mortality rate under 5

Introduction

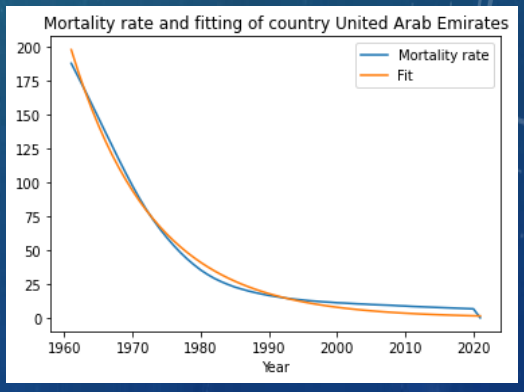
We have given data about probability of dying youth between ages 20-24. There are data of many countries, but we will look at the 2 countries India and United Kingdon. On the other side we have data related to Mortality rate under 5.



we have considered 2 countries for clustering named India and United Kingdom. We are having 5 clusters here. Probability of youth dying between age 20-24 has increased rapidly after 20 and 4.7 in India and United Kingdom, respectively. It became constant at 26 and around 6.1 in India and United Kingdom, respectively. The probability is very less at 3.0 and 14 in United Kingdom and India, respectively. A group of people having very high probability in the second cluster which is pink in color.

Clustering – It used to find Groups which has similar objects from the datasets. We separate the data based on their specific characteristics .

We can easily predict from the graph that it shows the Mortality rate under 5(per 1000) of the country United Arab Emirates. In this data fitting line and the mortality rate line overlap each other and it shows that mortality rate decreases with the year. It rapidly decreased from 200 to 25 in just 20 year(from year 1960 to 1980 whilst from the year 1990 to 2020 it is having constant mortality rate which is Nearly about zero.



Fitting – We use fitting to adjust the parameters in the model to improve accuracy. A well fitted model produces more accurate outcomes.

Repository Link - https://github.com/hetanshipatel/Clustering-and-fitting