Overview of Agglomerative Hierarchical Clustering Example

Dataset Link:

<https://www.kaggle.com/deepakg/usarrests>

Dataset Content:

This dataset contains four columns with statistics, in arrests per 100,000 residents, for assault, murder, and rape in each of the 50 US states in 1973.Also the percent of the population living in urban areas is provided.

Problem:

We would like to make clusters of states to see which of them show lower/higher crime rate.

Solution:

We want to develop a clustering model using Agglomerative Hierarchical Clustering algorithm which allows us to cluster states into different groups based on the number of assaults, murders and rapes.

Variables:

Independent variable🡪 Number of assaults, murders and rapes.

Dependent variable 🡪 Non Applicable.