

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is light green. They are positioned diagonally, with the blue one partially covering the green one.

# Cluster and PCA

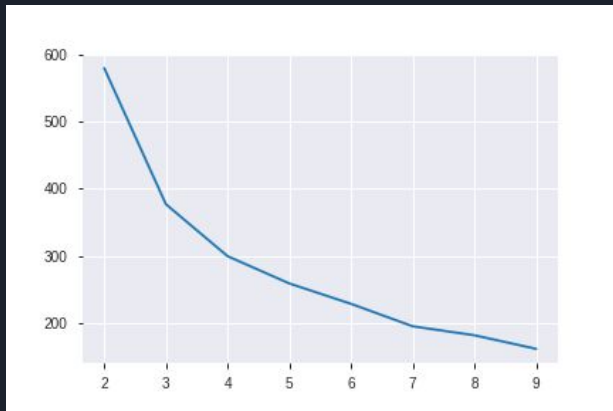
Jallepalli Prerna



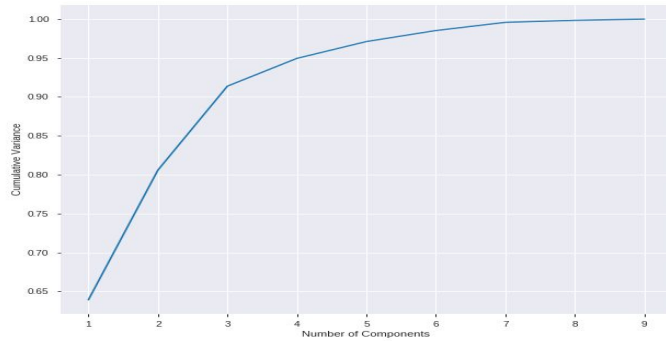
# Introduction

Steps Performed:

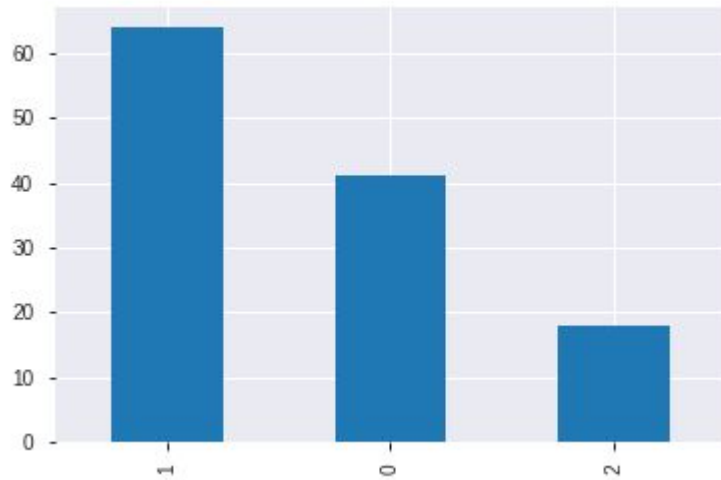
1. Extraction
2. Outlier detection and removal
3. PCA
4. Determining the k for Kmeans
5. Kmeans Clustering
6. Extracting the required data
7. Repeat for Hierarchical clustering



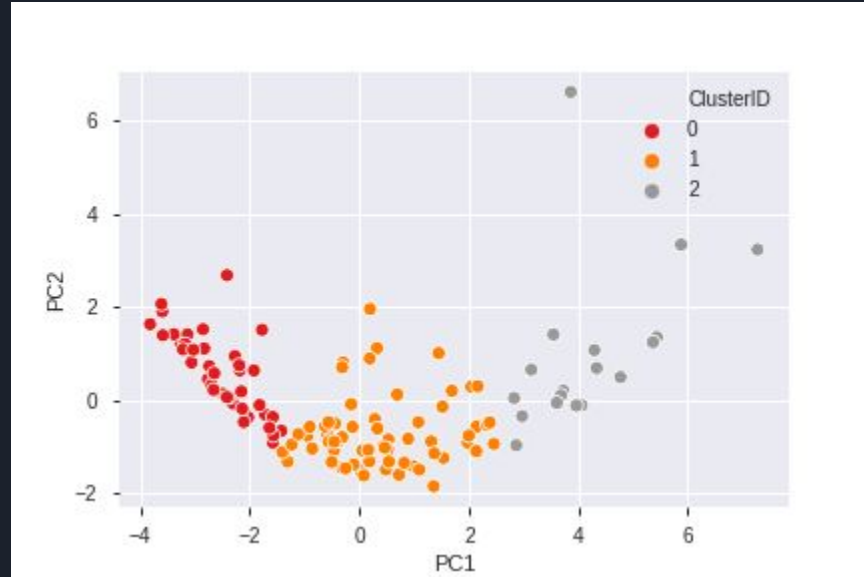
For determining the K value in Kmeans.  
Elbow plot.



Scree plot for determining the number of clusters



Total countries in  
each cluster after  
performing the  
clustering



Scatter plot for the clusters obtained from KMeans. After which The countries are extracted.



# Top 5 Countries

KMeans

- Chad, Central African Republic, Mali, Niger, Angola

Hierarchical Clustering:

- Burundi, Burkina Faso, Italy, Lebanon, Angola

These countries which are in dire need of aid



THANK YOU