HELP International

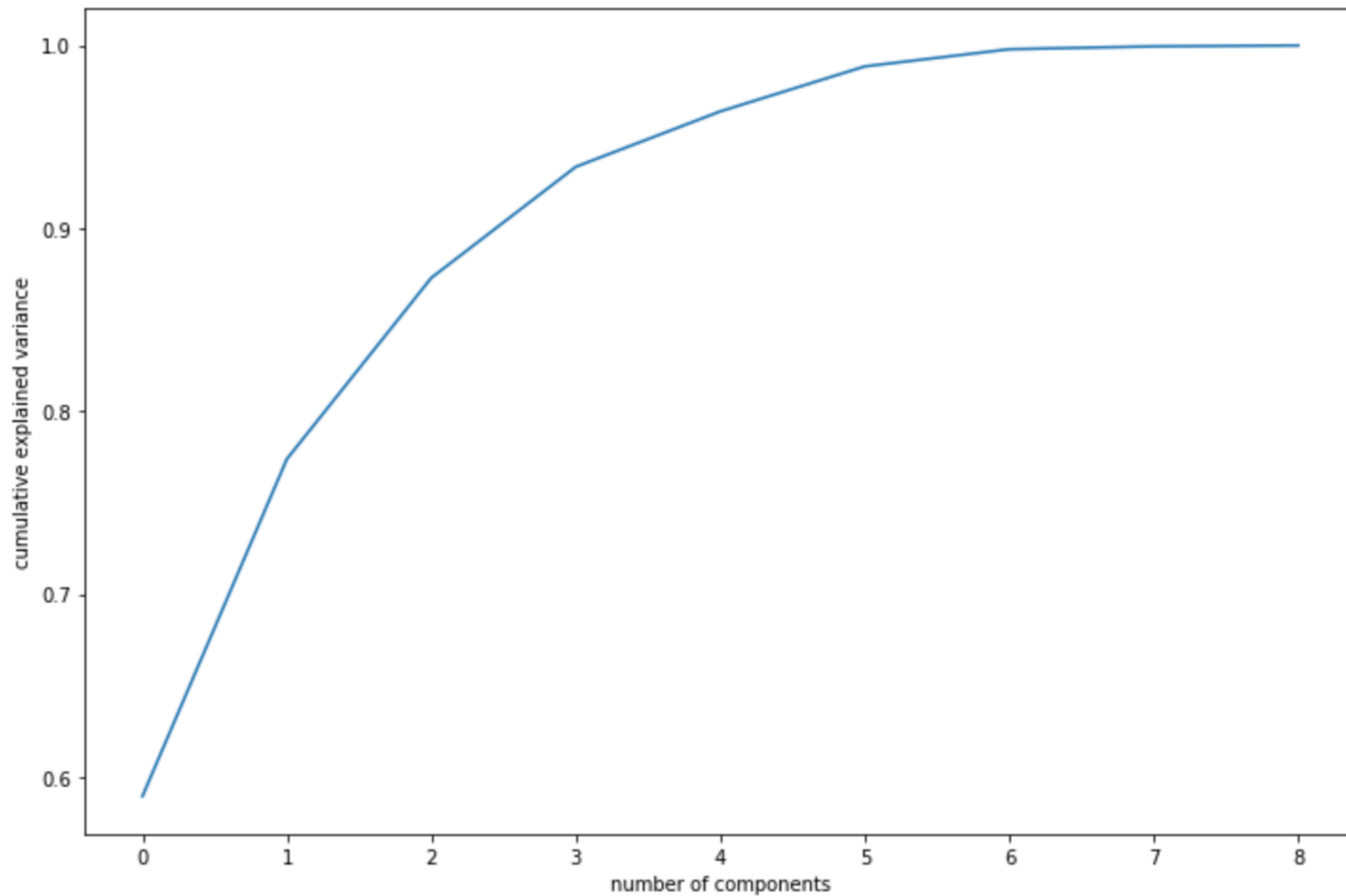## How to use $10M strategically and effectively

Categorising using socio-economic and health factors & choosing the countries in direst need of aid
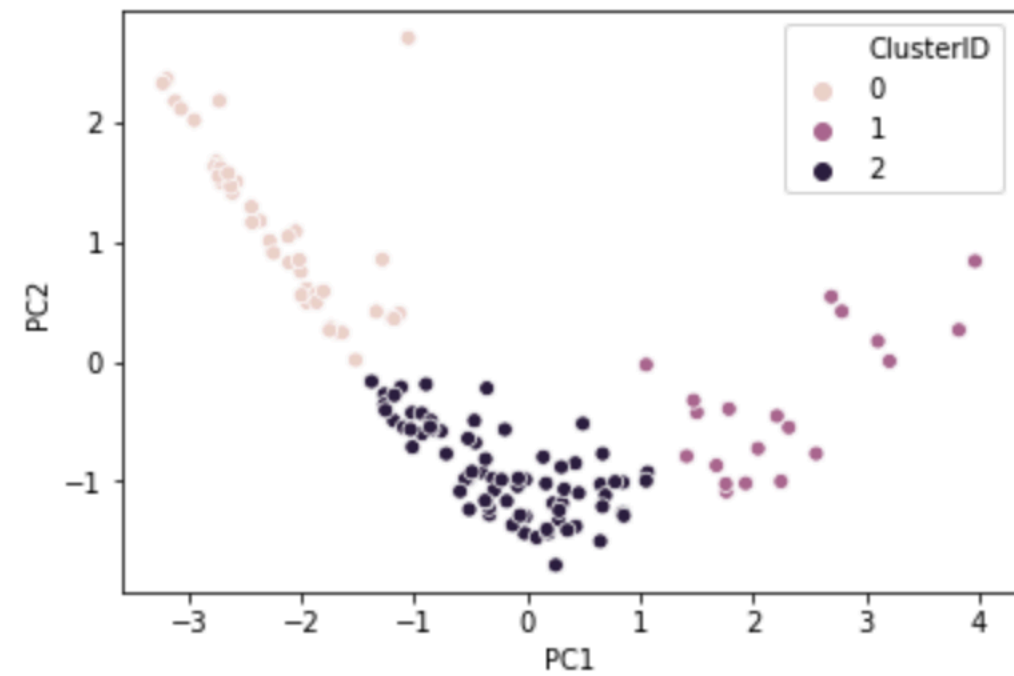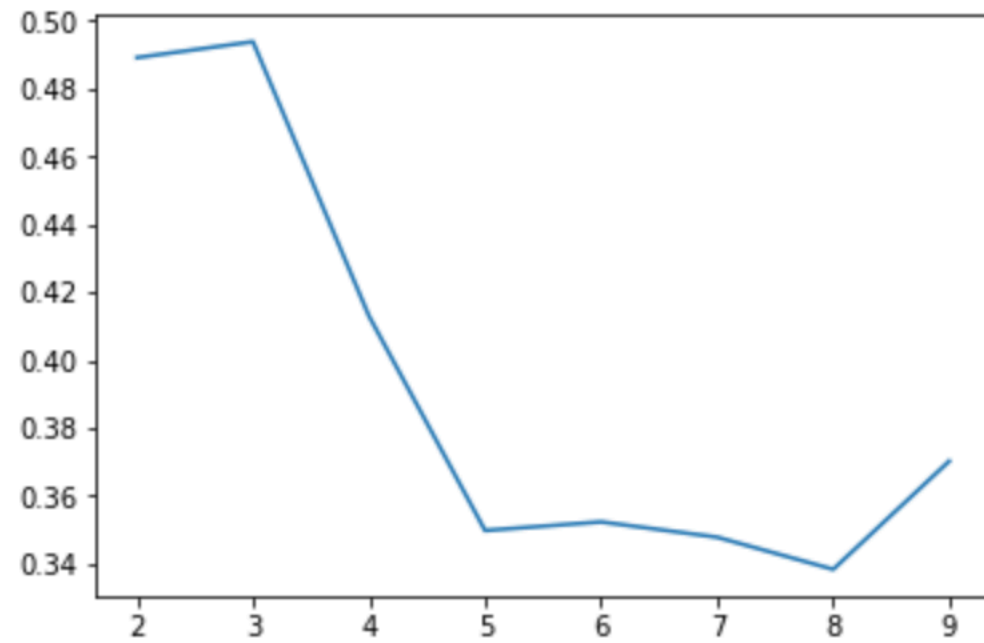
ANALYSIS APPROACH:

1. Perform PCA to find out principal components

2. Observe principal components and finalise number of PCs

3. Perform K-Means clustering on data

4. Find meaningful data from clusters to find out list of countries

5. Confirm analysis using a different K value

6. Perform hierarchical clustering on data

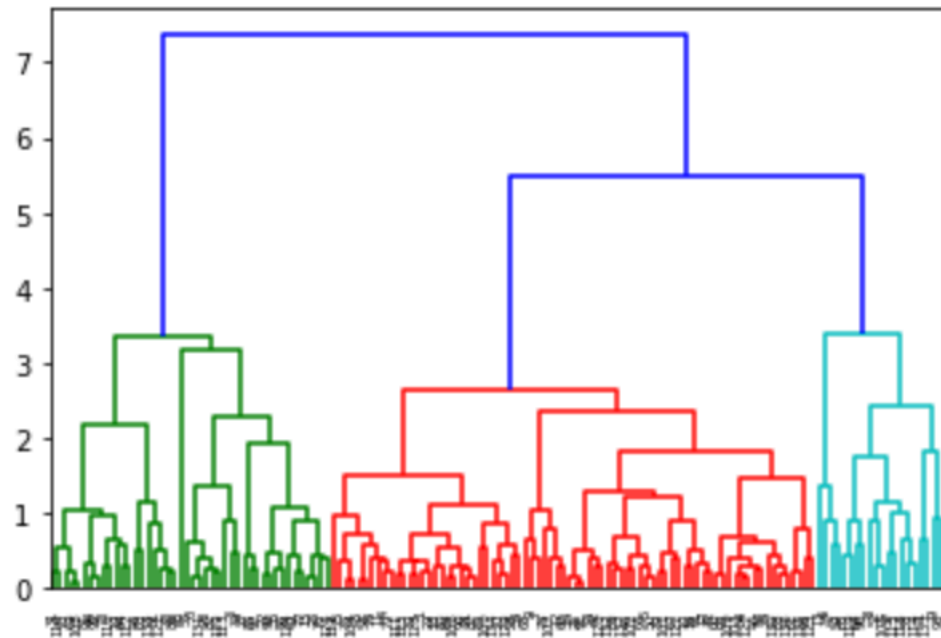7. Finalise the list of countries

PRINCIPAL COMPONENT ANALYSIS

Around 93% of the information is being explained by 4 components

K-MEANS CLUSTERING

3 Clusters are formed

HIERARCHICAL CLUSTERING

	ClusterID	child_mort	exports	health	imports	income	inflation	life_expec	total_fer	gdpp
0	0	87.447727	940.282841	113.670425	857.833114	4038.295455	9.858523	59.825000	4.977500	1922.818182
1	1	22.417105	2616.788007	383.481663	2858.415672	11405.526316	6.190250	72.867105	2.265658	5890.947368
2	2	5.780000	15278.950000	2498.288000	13892.205000	36900.000000	3.272700	79.085000	1.821500	30690.000000

FINAL LIST OF COUNTRIES WHICH SHOULD BE GIVEN FUNDING :
1. Burundi
2. Congo, Dem. Rep.
3. Guinea
4. Malawi
5. Sierra Leone