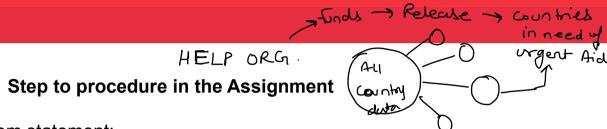




Clustering: Pre-Assignment Session

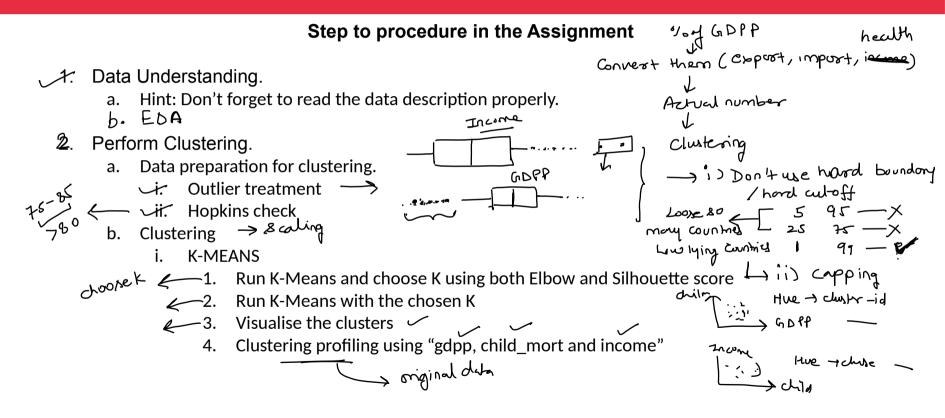




Let's first understand the problem statement:

Identify top countries that are direst need of aid. Your job is to categorise the countries using some socio-economic and health factors that determine the overall development of the country. Then you need to suggest the countries which the CEO needs to focus on the most.

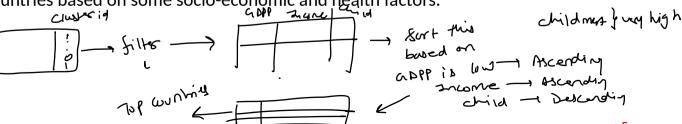
_			<u> </u>	<u> </u>	<u> </u>					
	country	child_mort	exports	health	imports	income	inflation	life_expec	total_fer	gdpp
0	Afghanistan	90.2	10.0		44.9	1610	9.44	56.2	5.82	553 (
1	Albania	16.6	28.0	6.55 (48.6	9930	4.49	76.3	1.65	4090
2	Algeria	27.3	38.4	4.17	31.4	12900	16.10	76.5	2.89	4460
3	Angola	119.0	62.3	2.85	42.9	5900	22.40	60.1	6.16	3530
4	Antigua and Barbuda	10.3	45.5	6.03	58.9	19100	1.44	76.8	2.13	12200

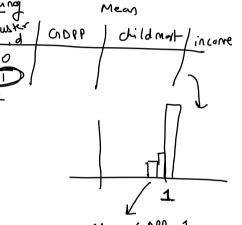


Step to procedure in the Assignment

k=3

- 1. Perform Clustering.
 - a. Clustering
 - i. Hierarchical Clustering
 - 1. Use both Single and Complete linkage
 - 2. Choose one method based on the results
 - 3. Visualise the clusters
 - 4. Clustering profiling using "gdpp, child_mort and income"
- 2. Country Identification
 - a. Based on the analysis, choose the countries that are in need for the aid.
 - b. Choose the countries based on some socio-economic and health factors.





- You need to comment your code properly.
- You need to submit 3 files zipped as one file. A python notebook with all the code, A
 PPT(Converted as PDF) with all the recommendation and A PDF with part-II of the assignment.
- PPT is for managers, so don't add unnecessary pages. PPT should cover main points from your analysis.
- Choose K wisely as this reflects the final solution.
- Mention your assumptions in your notebook, If taken any.
- For any help regarding assignment, use Discussion Forum.
- For any help regarding coding error, use online portals such as StackOverflow.





Thank You!