

## Hierarchical Clustering

### Instruction on how to run my code:

Please run this project on Google Collab and use the file named “**Hierarchial\_clustering\_Uttam.ipynb**”. Go to Runtime and click on Run all and you will see the result. Before you run this code, please upload the file name “[Mall Customers.csv](#)” in the root folder of Google Collab. If not, just upload the file and manually change the file location in the code.

### Result:

#### Information about the dataset

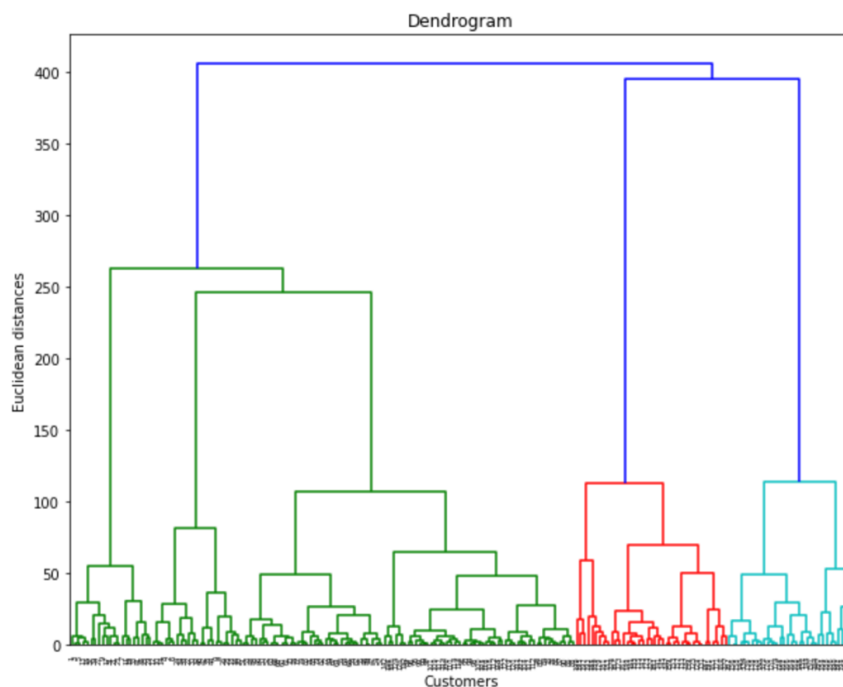
The number of features is: 200

The number of examples in our dataset: 5

	CustomerID	Gender	Age	Annual Income (k\$)	Spending Score (1-100)
0	1	Male	19	15	39
1	2	Male	21	15	81
2	3	Female	20	16	6
3	4	Female	23	16	77
4	5	Female	31	17	40

#### Describing the aggregate statistics

	CustomerID	Age	Annual Income (k\$)	Spending Score (1-100)
count	200.000000	200.000000	200.000000	200.000000
mean	100.500000	38.850000	60.560000	50.200000
std	57.879185	13.969007	26.264721	25.823522
min	1.000000	18.000000	15.000000	1.000000
25%	50.750000	28.750000	41.500000	34.750000
50%	100.500000	36.000000	61.500000	50.000000
75%	150.250000	49.000000	78.000000	73.000000
max	200.000000	70.000000	137.000000	99.000000



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