## Data Mining

Assignment # 2





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Batch: 2022

Department: CSIT

Specialization: DATA SCIENCE

Question 1. Applying Agglomerative Hierarchical Clustering to cluster the points mentioned below. Euclidean distance for the distance measure between objects and complete link and Average link for the distance between clusters. Show clearly all iterations and give dendrogram of clustering. Are the dendrogram of complete link and Average link different? Give reason to justify. [CLO\_2, C3]

A(7,8), B(3,5), C(6,4), D(6,0), E(1,5), F(8,4)

## **FISSIGNMENT: 02**

A(7,8), B(3,5), C(6,4), D(6,0), E(1,5), F(8,4)

## COMPLETE LINK:-

San State of the san						
	A	В	C	0	E	F
A	0					
В	5	0.				d under
C	4-12	3-16	0		113.A	
D	8.06	5.83	4	0		total
E	6.70	2	5.09	7.07	0	FA
F	4-12	5.09	2	4.47	707	0
						The second secon

Mergi	e B	and E:			RUA TON
U	A	B,€	C	0	F
A	0			760.4	133
B, E	6.70	0		aga	
C	4.12	5.09	0		
D	8.06	7.07	4	0	18:9 Sea
F	4-12	7.07	2	4.47	0

Merge C and F:

		ALCOHOL: NO DESCRIPTION OF THE PERSON OF THE	10		
	A	BR C.F	0		
A	0	100			
B,E	6.70	0			
C,F	4-12	7.07 0			
D	8.06	7.07 1 4.47	0		

0	A and Co	B,E	D
A.C.F	0		
B, E	7.07	0	
D	8.06	7.07	1

Merge	A, C, F and E	3,E:
0	A, C, F, B, E	10
A,C,F,B,E	0	
D	8.06	1

Merge D and A, C, F, B, E:

Now, all elements are merged so more merging.

Final. A, B, C, D, E, F

	4		idogram	8-06			
	4	7.0	9				
	4						
	5						
	4		941	12			
	1		2				30014
	1		141	3 10			
			CF	A	0		
AI	ERAGI	LINI	<b>\</b> :				
AI	VERAGI	ELINI	<b>C</b>	b	EI	F	16
A	1			b	E	F	
	A			b	E	F	
Α	A	В		b	E	F	
A	A 6 5	8		b	E	F	
A B	A 0 5 4.12	3.16	0	3,4	Lac.	F	

Merge B and E:-



