NAME:S.S.NITHISH SOORYA

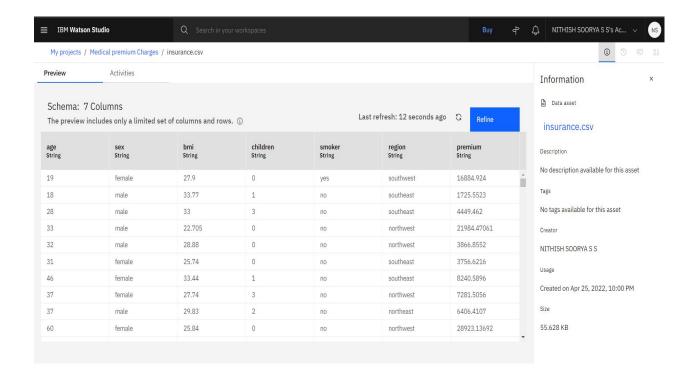
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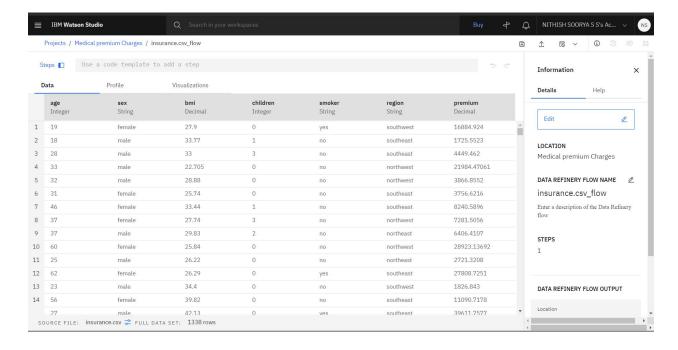
CAMPUS: VELLORE

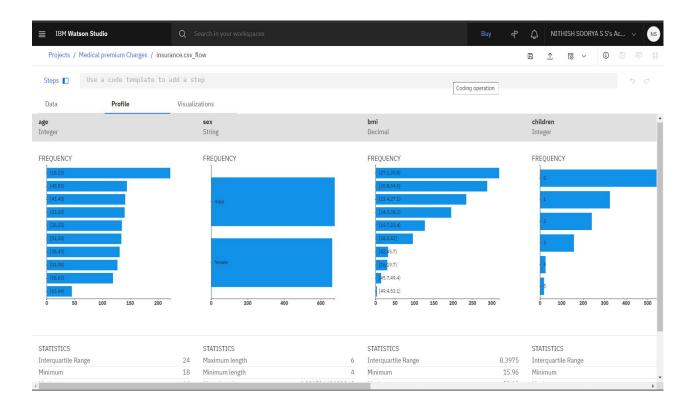
DATA ANALYTICS

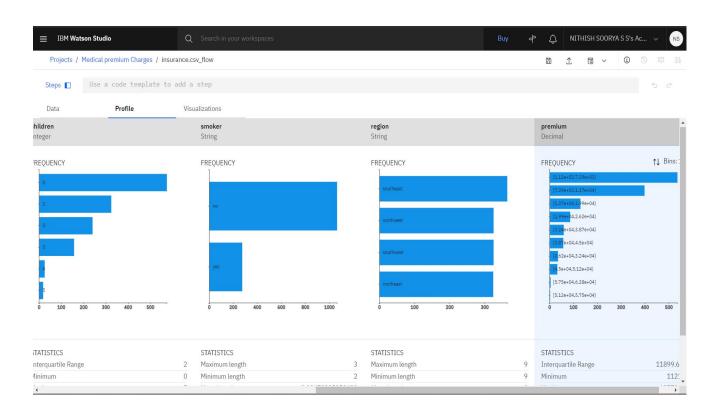
ASSIGNMENT - 4

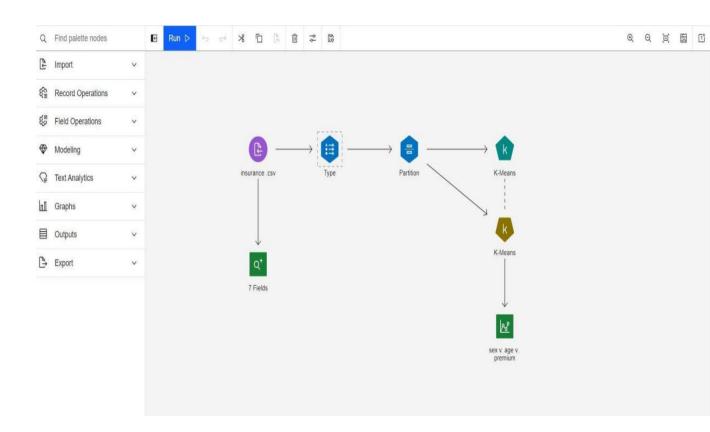
CLUSTERING MEDICAL PREMIUM CHARGES







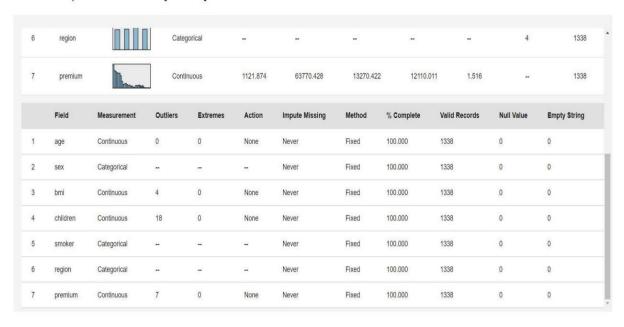


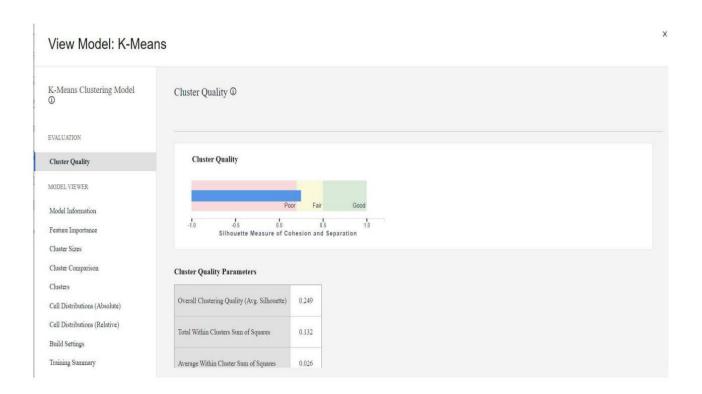


View Output: Data Audit of [7 fields]

	Field	Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1	age		Continuous	18	64	39.207	14.050	0.056	-	1338
2	sex		Categorical	-	-	-	-	-	2	1338
3	bmi	4	Continuous	15.960	53.130	30.663	6.098	0.284	-	1338
4	children		Continuous	0	5	1.095	1.205	0.938	-	1338
5	smoker		Categorical	-		-			2	1338
6	region		Categorical		-	-	-	-	4	1338

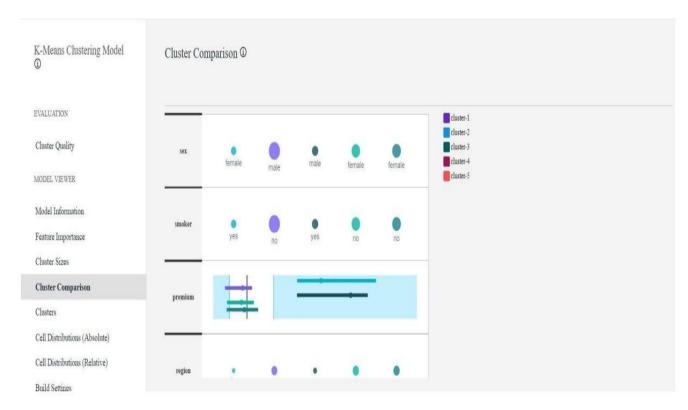
View Output: Data Audit of [7 fields]



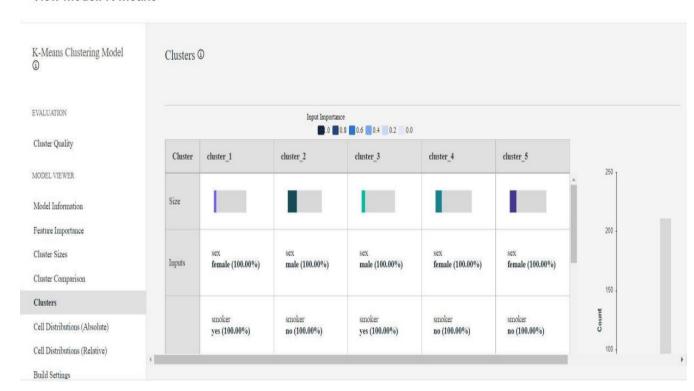


K-Means Clustering Model				
EVALUATION	Algorithm		K-Means	
Cluster Quality				
MODEL VIEWER	Model Class		Center Based	
Model Information Number of Features		7		
Feature Importance Cluster Sizes	Distance Measure		Euclidean	
Cluster Comparison Clusters	Number of Clusters		5	
Cell Distributions (Absolute)	C	Cluster 1	81 (8.7%)	
Cell Distributions (Relative)		Cluster 2	368 (39.53%)	
Build Settings Training Summary		Citistei 2	300 (22.22.10)	

View Model: K-Means

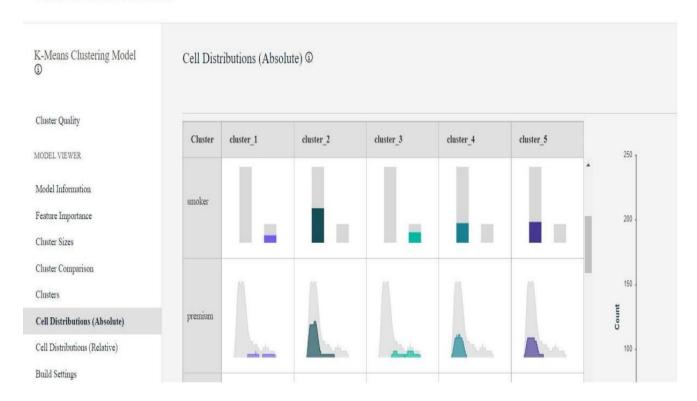


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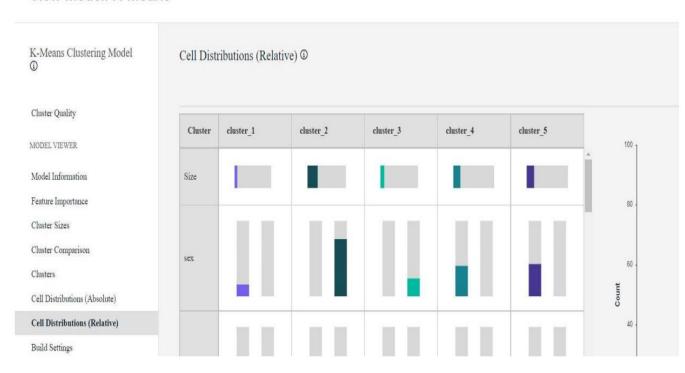


View Model: K-Means

K-Means Clustering Model D	Clusters ①					
EVALUATION					1	
Cluster Quality	bmi 29.95	bmi 30.52	bmi 30.70	bmi 30.39	bmi 31.77	
MODEL VIEWER						
Model Information	children .91	children 1.11	children .77	children 1.16	children 1.07	
Feature Importance						
Cluster Sizes	age	age	age	age	age	
Cluster Comparison	age 39.65	40.22	37.79	40.50	age 41.43	
Clusters						*
Cell Distributions (Absolute)						



View Model: K-Means





View Model: K-Means

