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BENGALURU School of Information and Science Mid - Term Examinations - November 2024

Sen	nester: III	Date: 07-11-2024					
Course Code: CSA2018		Time : 02.00pm to 03.30pm					
Cou	rse Name: Data Modeling And Visualization	Max Marks: 50					
Pro	gram: BCA	Weightage: 25%					
Instr	Instructions: (i) Read all questions carefully and answer accordingly. (ii) Do not write anything on the question paper other than roll number.						
	Part A						
Ans	wer ALL the Questions. Each question carries 2marks.	5Qx2M=10M					
1	What are some essential skills required for data scientist?	2 Marks	L1	C01			
2	What are the key steps in the data modeling process?	2 Marks	L1	C01			
3	Define outliers.	2 Marks	L1	CO2			
4	List common techniques used in EDA.	2 Marks	L1	CO2			
4 5	List common techniques used in EDA. What is feature?	2 Marks 2 Marks	L1 L1	CO2 CO2			

Part B

Answer	4QX10M=40M			
6	Analyze the effect of transforming numerical variables on model performance.	10 Marks	L4	C01
	Or			
7	Explain different feature scaling methods.	10 Marks	L4	C01
8	Assess the potential biases introduced by different imputation techniques	10 Marks	L5	C01

Or									
9		Analyze categorical values encoding techniques	10 Marks	L5	C01				
10	a.	Explain the advantages of Exploratory data analysis	4 Marks	L2	CO2				
	b.	How does EDA differ from classical and Bayesian approaches	6 Marks	L4	CO2				
	Or								
11	a.	Why is exploratory data analysis important in data science?	4 Marks	L2	CO2				
	b.	Describe steps involved in EDA	6 Marks	L4	CO2				
12	a.	What are the common Exploratory Data Analysis tools	4 Marks	L2	CO2				
	b.	Write a code to plot the Correlation matrix.	6 Marks	L3	CO2				
Or									
13	a.	What are the key characteristics of Bayesian analysis?	4 Marks	L2	CO2				
	b.	Write a code to create scatter plot.	6 Marks	L3	CO2				