Roll No.



BENGALURU

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

Semester: III Date: 07-11-2024

Course Code: CSA2018 Time: 02.00pm to 03.30pm

Course Name: Data Modeling And Visualization **Max Marks**: 50

Program: BCA Weightage: 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.			5Qx2M=10M		
1	What are some essential skills required for data scientist?	2 Marks	L1	CO1	
2	What are the key steps in the data modeling process?	2 Marks	L1	CO1	
3	Define outliers.	2 Marks	L1	CO2	
4	List common techniques used in EDA.	2 Marks	L1	CO2	
5	What is feature?	2 Marks	L1	CO2	

Part B

Answer ALL Questions. Each question carries 10 marks.			4QX10M=40M			
6	Analyze the effect of transforming numerical variables on model performance.	10 Marks	L4	CO1		
	0r					
7	Explain different feature scaling methods.	10 Marks	L4	CO1		
8	Assess the potential biases introduced by different imputation techniques	10 Marks	L5	CO1		

0r

9		Analyze categorical values encoding techniques	10 Marks	L5	CO1			
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			