Total No. of Printed Pages: 02

BCA (Semester – VI) EXAMINATION NOVEMBER 2023 Data Science Concepts

[Max. Marks:60] [Time: 2 Hours]

Instructions:

- Question 1-6 are compulsory
 Figures to the right indicate full

Column A		Column B	
i.	Market Basket Analysis	a. Uses Majority Voting or Average,	
ii.	Data Visualisation	b. Correlation Matrix	
m.	Random Forest	c. Uses Activation Function to produce output	
iv.	Artificial Neural Network	d. Apriori Algorithm.	
V.	Filter Method	e. Pictorial representation of data.	
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. De	fine the following:		
1	Supervised Learning		
11.	Feature Importance		
iii.			
iv.			
V.	Hypothesis Testing		
B.	What is Outliers Management?		
	Explain Logistic Regression.		
		lgorithm. Using the following dataset	
	create clusters if K-2 and initia		
	Data Points = $[4, 12, 6, 2, 7, 5]$, 8]	
	List any 2 disadvantages of Decision Trees.		
	What is Reinforcement Learning?		
C.	Explain Naïve Bayes Classifier Algorithm.		
Α	What is Data Analysis?		
		Confidence using the dataset given below.	
	Customer 1: Apples, Oranges, Grapes		
	Customer 2: Oranges, Apples,		
	Customer 3: Oranges, Bananas, Grapes		
	Customer 4: Gum, Bananas, B		
	Customer 5: Apples, Oranges,		
	3	A. C.	
C	Explain the Bagging Ensemble	Technique	

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Q5	A. Give 2 points of difference between Data Analysis and Data Analytics. B. Define Boosting. State the Boosting Algorithm. C. What is Machine Learning? State the 4 features of Machine Learning.	02 03 05
Q6	A. Give 2 points of difference between K-Means and K-Medoid. B. List any 3 advantages of Features Selection. C. Explain the K-Nearest Neighbour Algorithm.	02 03 05
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