Code No.: AI742PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Regular) - November- 2024 DATA ANALYTICS AND VISUALIZATION (CSM)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)
1. a)	Discuss the need of Data Analytics.	[2M]
b)	Define Data Management.	[2M]
c)	List out the Applications of Modeling in Business.	[2M]
d)	Demonstrate the classification of Data.	[2M]
e)	What are the Blue Property Assumptions?	[2M]
f)	Make use of the Least Square Estimation.	[2M]
g)	Discuss the Advantages of Decision Trees.	[2M]
h)	Difference between the Regression and Segmentation.	[2M]
i)	Explain any two visualization tools.	[2M]
j)	Discover the meaning of Data Visualization.	[2M]
	PART-B	(50 Marks)
2.	Explain data preprocessing in data management. OR	[10M]
3.	Discuss the process of handling duplicate values in organizational data.	[10M]
4.	Demonstrate the importance of business modeling. OR	[10M]
5.	Compare the techniques for dealing numerical data with categorical data.	[10M]
6.	Explain different types of variables used in Regression modeling. OR	[10M]
7.	Demonstrate linear regression with suitable example.	[10M]
8.	Explain in detail of multiple decision trees. OR	[10M]
9.	Describe the need of tree pruning in decision trees.	[10M]
10.	Explain the challenges in visualizing complex data and relations and sugges suitable mechanisms to address them.	t [10M]
	OR	
11.	Difference between the different visualization techniques.	[10M]