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Code No: 137BQ

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, October/November - 2020

DATA MINING

(Common to CSE, IT)

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Time: 2 hours

Max. Marks: 75

Answer any Five Questions

All Questions Carry Equal Marks

1. What is the need for processing of data? Explain the techniques for Data processing. [15]
2. Discuss the characteristics of Data warehousing and steps in building a data warehousing architecture. [15]
3. How can the efficiency of Apriori Algorithm be improved? Explain mining quantitative association rules with appropriate examples with support count = 2
T1 = {fever, cold, sore throat, running nose, difficulty breathing}
T2 = {cold, sore throat}
T3 = {cold, fever}
T4 = {difficulty breathing, fever}
T5 = {fever, cold, difficulty breathing}
T6 = {cold, fever, running nose} [15]
- 4.a) Explain types of association rules in data mining.
b) Describe constraint-based association mining. [7+8]
5. Explain Naïve-Bayes classification technique with an illustrative example. [15]
6. What is need of performing efficient implementation of Decision tree induction? Explain entropy information gain and gini index with example on sales data. [15]
7. How efficient is the K-medoids algorithm on large data sets? Illustrate with example. [15]
- 8.a) Discuss the basic measures for text retrieval.
b) Explain briefly about Web mining. [7+8]

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