

DM

Content

Unit - 1

1. What is DM and process of knowledge discovery in db.
2. Diff types of datasets and explain
3. Numerical \rightarrow frequent set using Apriori algo
4. approached features, subset selection
5. challenges that motivated the development of DM
6. diff procedure to generate candidate set / frequent set
7. Types of data & how it is handled
8. diff b/w discretization & binarization with Etc
9. Discuss Sampling and dimensionality reduction, aggregation
- (10). Discuss whether the following tasks is a DM task. Question paper

Unit - 2

1. FP tree numerical
2. Closed item set & maximal item set numerical
3. various kinds of Association Rule mining
4. How are Categorical & Continuous attributes handled
5. How association patterns are evaluated
6. Compute Support, Confidence, interest measure numerical
Contingency table
7. Explain Inversion, Null addition, Scaling property
8. Illustrate maximal frequent set

Unit - 3

1. Knn classification numerical
2. Compute gini index numerical, information gain numerical, entropy
3. Note on rule based classifier, ANN, naive bayes
4. Anomalies in training data & how pruning could be used
5. Model fitting and how it is handled / Causes
6. Back propagation Algo
7. decision Tree Induction algo with characteristic
8. Naive bayes numerical

Unit - 4

1. K-means clustering numerical, K-means → Strengths / Weakness
2. Types of Clusters , important issues for cluster validation
3. Types of Clustering
4. Compare partitioned & hierarchical Clustering
5. Requirements of Clustering in DM
6. Dendrogram & its Significance
7. DBSCAN algo and drawbacks
8. Compute Cosine, Euclidean, Jaccard, numerical
9. Show Single link Clustering & Single dendrogram numerical

Unit-5

for effective resource

- ① Challenges of web data mining, ways of resolving
- ② Explain basic measures for text retrieval
3. TF-IDF numerical
- ④ How DM is used in banking & finance industry, Retail
- ⑤ Text mining approaches any 2
6. Short note on • Mining the web • Information Retrieval.
• Web usage mining
7. Application of DM for intrusion detection
8. Web page layout structure