

Anil Neerukonda Institute of Science & Technology

III/IV B.Tech IT Sem-I Professional Elective-1 (Data Mining)

Unit wise Question bank

UNIT – I

1. Define terms Data, Information, Knowledge.
2. Explain KDD process.
3. Explain different types of data pre-processing steps
4. Explain each data pre-processing technique?
 - Explain binning, Z-score, Normalization.
5. Architecture of DM system & classification of DM system.
6. Problems on ;
 - Apriori
 - Fp growth
 - Apriori algorithm

UNIT – II

1. Explain Decision Tree Algorithm.
2. Problem on D.T.?
3. What is naïve? and how it is used for class?
4. Problem on native?
5. Backpropagation problem?
6. Confusion matrix & evaluation measure?
7. How can you develop or eliminate a model?
8. Explain about ontology

UNIT – III

1. What are the requirements for clustering?
2. Types of clustering?
3. Given datapoints measure Euclidean, Manhattan, Minkowski distance.
4. Problems on k-means?
5. Explain about k-means clustering with example.
6. Explain about Agglomerative & Hierarchical clustering.
7. Explain about DBScan Algorithm.
8. What is outlier analysis? Write its applications.

UNIT-IV

1. Explain about multidimensional analysis in mining complex data objects.
2. Explain about spatial data mining.
3. Multimedia data mining.
4. Explain the operations in OLAP.
5. Applications of spatial data mining
6. Explain about Spatial Clustering Methods & spatial classification methods.

UNIT – V

1. Define text mining and its application in Business, Healthcare and Social media.
2. Explain about structured, semi-structured and unstructured data with examples and figures and their challenges.
3. Differentiate between all the three types of data.
4. Define web mining and its types.
5. How web mining differs from data mining.
6. Give any case studies to explain types of web mining.
7. Write about opinion mining and its applications.
8. Write about sentiment analysis and its applications.
9. With case studies explain about Web usage mining, web structure mining, web content mining and their differences.