

RCETCSAC01 - Data Mining

Course outcomes:

- To fully understand standard data mining methods and techniques such as association rules, data clustering and classification.
- Learn new, advanced techniques for emerging applications (e.g. social network analysis, stream data mining).

Syllabus:

UNIT 1

Data Mining Introduction

Data Mining Techniques- Process with a typical collection of data, Big Data, and data visualization using data mining software- Data Mining Methods as Tools - Data Mining Memory, Based Reasoning Methods, Algorithms with simulated data based on real-world applications

UNIT II

Data Mining Types and Methods

Data Stream Mining, Time Series Mining, Text Mining, Data Stream Clustering, and Big Data Mining are all terms for the same thing- Market Basket Analysis - Fuzzy Data Mining, Fuzzy Decision Tree,

UNIT III

Data Mining Applications

Applications of the Fuzzy Association Rule, Support Vector Machines, Genetic Algorithms, Rough Sets - Graph Mining, Social Network Mining, Web Mining, Web Usage Mining, Privacy-Preserving Data Mining, and Recommender Systems are examples of social computing.

Reference Text Books

1. Han, J., Kamber, M., & Pei, J. (2011). Data mining: Concepts and techniques (3rd ed.). Waltham: Morgan Kaufmann.