



ADITYA ENGINEERING COLLEGE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Teaching Methodology

Academic Year 2021-2022

Name of the Program: B. Tech.

Year/Semester: IV/VII

Course: Data Warehousing and Data Mining

Course Code: 191CS6T12

ROLE PLAY

Topic: Knowledge Discovery Data in Data Mining



Flow of Knowledge Discovery Data



Discussion on Knowledge Discovery Data

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Concept: Knowledge Discovery Data

KDD includes multidisciplinary activities. This encompasses data storage and access, scaling algorithms to massive data sets and interpreting results. The data cleansing and data access process included in data warehousing facilitate the KDD process. Artificial intelligence also supports KDD by discovering empirical laws from experimentation and observations. The patterns recognized in the data must be valid on new data, and possess some degree of certainty. These patterns are considered new knowledge. Steps involved in the entire KDD process are:

1. Identify the goal of the KDD process from the customer's perspective.
2. Understand application domains involved and the knowledge that's required
3. Select a target data set or subset of data samples on which discovery is to be performed.
4. Cleanse and preprocess data by deciding strategies to handle missing fields and alter the data as per the requirements.
5. Simplify the data sets by removing unwanted variables. Then, analyze useful features that can be used to represent the data, depending on the goal or task.
6. Match KDD goals with data mining methods to suggest hidden patterns.
7. Choose data mining algorithms to discover hidden patterns. This process includes deciding which models and parameters might be appropriate for the overall KDD process.
8. Search for patterns of interest in a particular representational form, which include classification rules or trees, regression and clustering.
9. Interpret essential knowledge from the mined patterns.
10. Use the knowledge and incorporate it into another system for further action.
11. Document it and make reports for interested parties.


Course Coordinator





Head of the Department
Head of the Department
Department of CSF

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