

WORKSHOP PROPOSAL

“DATA MINING”

Submitted by: -

E2MATRIX

(An ISO 9001:2008 Certified Company)

The Value of Trust



Return on Influence

***“Join hands for long relations because trust
matter”***

1	1 DAY WORKSHOP	Page No: 4
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Data mining is an interdisciplinary subfield of computer science. It is the computational process of discovering patterns in large data sets involving methods at the intersection of artificial intelligence, machine learning, statistics, and database systems. The overall goal of the data mining process is to extract information from a data set and transform it into an understandable structure for further use. Aside from the raw analysis step, it involves database and data management aspects, data pre-processing, model and inference considerations, interestingness metrics, complexity considerations, post-processing of discovered structures, visualization, and online updating. Data mining is the analysis step of the "knowledge discovery in databases" process, or KDD.



The main purpose of this “Hands-on Training on Data Mining Tools” is to create awareness and enrich knowledge for research scholars, faculty and students in the area of Data Mining Using Weka

1-DAY WORKSHOP

1. What is Data Mining
2. Role of Mining in real world scenario
3. KDD Process of Mining
4. Applications
5. General Introduction of Data Mining Tools

TIME DURATION: 3 hours

COST: 200/- PER STUDENT

2 -DAYS WORKSHOP

Module 1

1. What is Data Mining
2. Role of Mining in real world scenario
3. KDD Process of Mining
4. Applications
5. General Introduction of Data Mining Tools

Module 2

1. Techniques used in Mining:
 - a. Classification,
 - b. Clustering
 - c. Association Rule Mining
2. Weka: Basic Dataset Loading,
 - a. Visualization,
 - b. Data Filtering and Preprocessing

TIME DURATION: 3 hours/day

COST: 300/- PER STUDENT

3-DAYS WORKSHOP

Module 1

1. What is Data Mining
2. Role of Mining in real world scenario
3. KDD Process of Mining
4. Applications
5. General Introduction of Data Mining Tools

Module 2

1. Techniques used in Mining:
 - d. Classification,
 - e. Clustering
 - f. Association Rule Mining
2. Weka: Basic Dataset Loading,
 - c. Visualization,
 - d. Data Filtering and Preprocessing

Module 3

1. Market Basket Analysis
 - a. Classification
 - b. Association Rule mining
2. Clustering based on student performance data

Module 4

1. Filtration techniques
2. Attribute Selection
3. Knowledge Flow

TIME DURATION: 3 hours/day

COST: 500/- PER STUDENT