Assignment Data warehousing and Data Mining

15 computational

from different persp

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Slot: D2+TD2

Applications of pate mining

Data is set of discrete objects facts about an event or a process that have little use by themselve unless converted into information we have been collecting numerous data from simple numerical measure—ments and text documents to more complex information such as spatial data, multimedia channels and hypertext documents.

Basically the motive behind mining data, whether commercial or scientific is the same the need to find useful information in data to enable better decision making or a better understanding of world around us.

Extraction of intresting information or Patterns from data in large data based is known as data Mining."

Process of analysing data from different perspectives, dimensions, angles and summarizing into meaningful information.

Data mining provides competetive advantage in knowledge economy. It does this by providing the maximum knowledge needed to rapidly make valuable business decisions despite the enoromous amounts of available data.

Business

Transaction

Application

Scientific

Od Transportation

analysis

Data Mining

Market

Basket

Analysis

Analysis

Analysis

healthcare

re nothing finiteding information or

cointific Analysis:

Intrusion detection:

Datamining techniques plays a vital role in searching intrusion détection, nétwork attacks and anamolities. This datamining helps in selecting and refining useful and relevent information from large dataceté. Issimonodio la norhambiaroto e

Intrusion détection system generales alorm for network traffic in case of foreign invancion for example: 1. petect security violations 2 misuse detections

ness Transaction

Business Transactions:

Every business industry is memorized for Perpetuity such transactions are usually timerelated and can be inter business or intra, business deals Data Mining helps to analyse these business transactions and identify marketing approaches and decipion making. Examples:

- 1. Direct mail targeting
- 2. stock trading 3. churn prediction.

Scientific Analysis:

scientific simulations are generating bu of doita everyday. Datamining techniques are analysis of these data.

Examples:

1. sequence analysis in bioinformatics

2. classification of astronomical objects

3. medical decición support

Market Basket Analysis: " silled droubs

Data mining concepts are in use for sales and marketing to provide better customer service. customer retention in form of pattern identification and prediction of likely detections Every promote morning Education:

For Analyzing education sector, data mining uses education data mining method. By using Education data mining method we perform some educational tack independent insulate

- 1. Prediction students admission in higher education.
- 2. Predicting student performance.
- 3. Predicting student profiling
- 4. curriculum development.

identify the

1. Determine

Research!

A dataminiq technique can perform, predictions, classification, clustering associations and grouping of data with perfection in research area rules generated by datamining are unique to find

Example:

- 1. classification of uncertain data
- 2. Information based elustering
- 3. Decision support system
- 4. web mining
- 5. Smart farming Ist

Healthcare and Insurance:

A pharmaceutical sector can examine its new deal force activity and their outcome to improve the tocusing of high value physicians and figure out which promoting activities will have best effect. Data mining can help to Predict which cuctomers will buy new policies, identify behaviour patterns of risky customers.

- l' claims analysis i.e. which medical procedures are claimed together.
- 2. Identify succesful medical therapies different illness.

Transportation:

A diversified transportation company with large direct sales force can apply data mining to identify the best prospect for its service.

1. Determine the distribution schedules among

pharmaceitical sector

with the forming of high value

pad lies somotion deider triber

dentity reposition begane of supplement.

new deal force activity and their outcome

2. Analyse loading patterns. primmof sixone ?