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APPLICATION OF MULTIMEDIA DATA MINING TECHNOLOGY IN DIGITAL LIBRARY SYSTEM

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ABSTRACT

Multimedia data mining (MDM) Technology can be defined as the process of finding interesting patterns from media data such as audio, video, image and text that are not ordinarily accessible by basic queries and associated results. MDM Technology is the mining of knowledge and high level multimedia information from large multimedia database system. The digital library system retrieves, collects, stores and preserves the digital data. MDM technology is popular due to the conversion of the multimedia files in the libraries. This paper describes Multimedia data mining architecture and the various stages of domain understanding, data selection, cleaning/preprocessing, discovering patterns, Interpretation & reporting/using discovery knowledge.

KEYWORDS

MDM, ICT, data mining, KDD, data mining process, Digital Library.

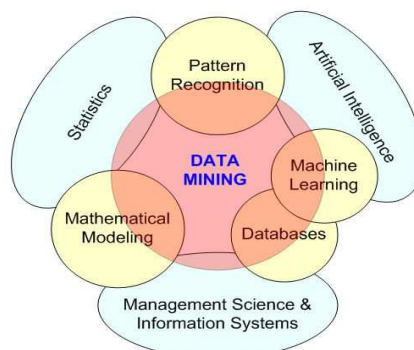
INTRODUCTION

The meaning of term MDM technology means several data sources of different modalities are processing at the same time. The MDM's primary purpose is to process media data alone or in a combination with other data for finding patterns useful for library systems. At present ICT (Information & Communication Technology) play a vital role to change the functions and activities of the libraries. Libraries are storehouses of information. Collection, storage, organization, processing & dissemination of information in all forms are their main function. Due to the development of digitization, mainly all libraries are digitizing their collection by converting their printed materials into digital form. There is various definition of MDM Technology, which are as follows-

Definition1- MDM is the exploration and analysis, by automatic or semi-automatic means, of large quantities of data in order to discover meaningful patterns and rules.

Definition2- Multimedia data mining (MDM) is a subfield of data mining that deals with an extraction of implicit knowledge, multimedia data relationship or other patterns not explicitly stored in multimedia database.

The goals of MDM are to discover useful information from large disordered data and to obtain knowledge from the information. There are mainly six tasks for MDM: summarization, association, classification, clustering, trend analysis and deviation analysis.

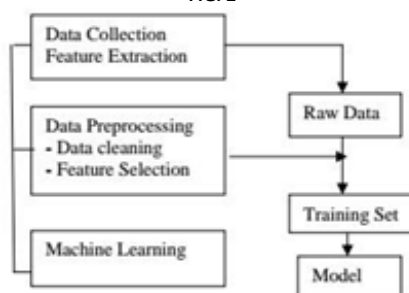
FIG. 1: APPLICATIONS OF DATA MINING

MDM is the combination of audio, video, text, images etc. and it the automatic extraction of patterns of information from historical data, enabling organization to focus on the next important aspects of their library services. Data mining is the process of automatic information discovery, which means that large quantities of data in order to discover meaningful patterns and rules.

MDM technology is a part of multimedia technology, which covers the following areas like media compression/storage/restoration, media transformation & media editing/indexing/search/retrieval/summarization.

MULTIMEDIA DATA MINING ARCHITECTURE

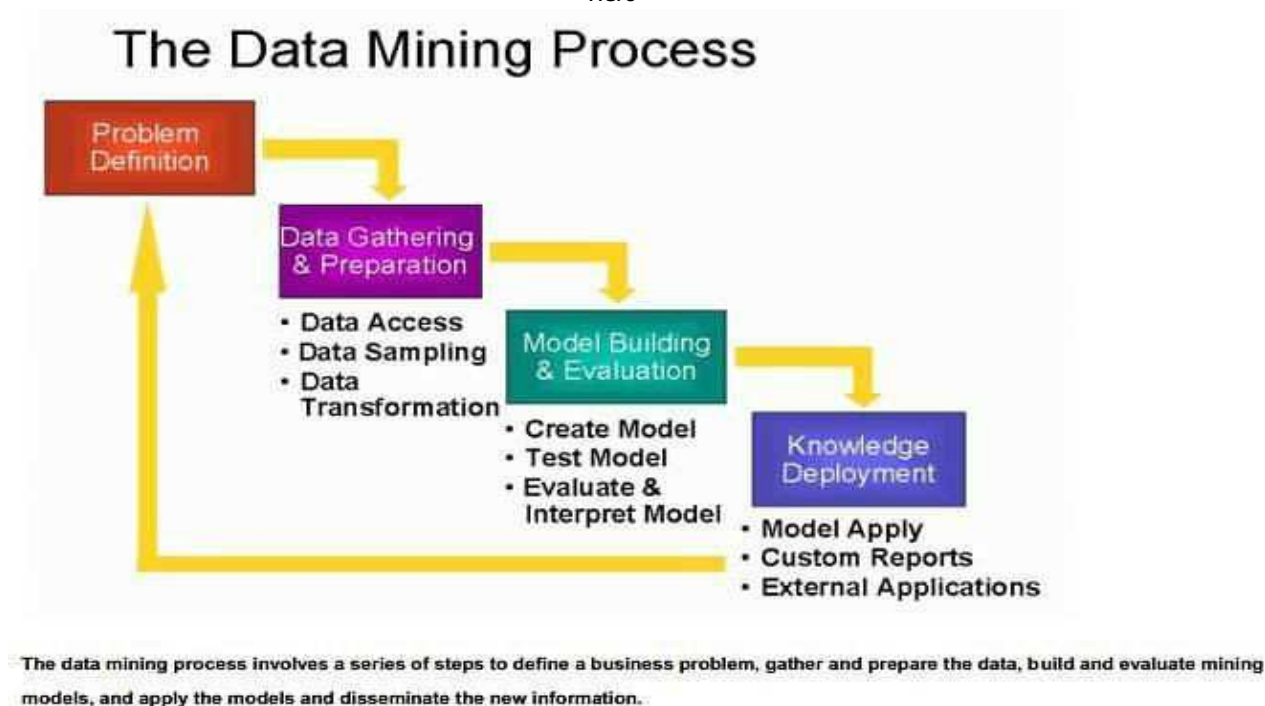
The data mining process consists of several processes and stages, which are related to each other and interactive. The main stages of the data mining process are (1) domain understanding; (2) data selection; (3) cleaning and preprocessing; (4) discovering patterns; (5) interpretation; and (6) reporting and using discovered knowledge. The domain understanding stage requires learning how the results of data-mining will be used so as to gather all relevant prior knowledge before mining.

FIG. 2

DATA MINING

It is (the analysis step of the "Knowledge Discovery in Databases" process, or KDD), an interdisciplinary subfield of computer science, 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. The following figures shows us data mining.

FIG. 3



According to Myatt any exploratory data mining project should include the following steps-

- Problem Definition:** The problem to be solved along with the projected deliverables should be clearly defined, an appropriated team should be put together and a plan generated for executing the analysis.
- Data Preparation:** Prior to starting any data analysis the data should be collected characterized, cleaned, transformed, and partitioned into an appropriate for processing.
- Implementation of the Analysis:** On the basic of the step 1 & 2, appropriate analysis techniques should be selected for implementation.
- Deployment of Results:** The results from step 3 should be communicated or deployed into a pre-existing process.

ISSUES IN MULTIMEDIA DATA MINING

Before multimedia data mining develops into a conventional, mature and trusted discipline, many pending issues have to be addressed. These issues pertain to the multimedia data mining approaches applied and their limitations. Major Issues in multimedia data mining include content based retrieval and similarity search, generalization and multidimensional analysis, classification and prediction analysis, and mining associations in multimedia data. Multimedia data mining needs content-based retrieval and similarity search integrated with mining methods. Content based retrieval in multimedia is a challenging problem since multimedia data needs detailed interpretation from pixel values. The objective of multi-dimensional analysis is to gain an insight into the meaning contained in databases. The multi-dimensional approach makes navigating the database easier, screening for a particular subset of data, or asking for data in a particular way, and being able to define analytical calculations.

MULTIMEDIA DATA MINING IN DIGITAL LIBRARIES

The Digital libraries retrieve stores and preserve the digital data. For this purpose, there is a need to convert different formats of information such as text, images, video, audio, etc. Thus, in the process of conversion of the multimedia files in the libraries, the data mining techniques are popular. The main requisite of Multimedia data mining is the collection of huge amounts of data. The key factor is the sample size when analyzing data because predicted trends and patterns are more likely to be inaccurate with a smaller sample. This data can be collected from various media, including videos, sound files, and images. Information from one or more of these media is the focus of data collection.

CONCLUSION

Multimedia data mining techniques is one of the active and growing areas in the digital library system. In digital libraries MDM techniques is needed for conversion and preservation of multimedia information.

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