**A University Library Using Data Mining**

**ABSTRACT:-**

In view of characteristics of users’ data in the university library and based on big data technology, in this paper we propose a data mining process and discuss some applications of data mining in the university library. Besides, we inveterate the problems in the application of big data mining in the university library and provide some suggestions to solve these problems.

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| **EXSISTING SYSTEM** | **PROPOSED SYSTEM** |
| * At present, some university libraries are using various information technologies to manage the massive users’ data and holding information of books in the library. Their database systems can efficiently implement entry and query of the data, as well as other traditional functions. * However, most university libraries are unable to find the connection and pattern of various types of data in the database, unable to forecast future trends of the services based on existing data, and do not have the abilities to mine the hidden knowledge behind the data, when they manage huge data in the library. | * The main purpose of the data mining system of university library is analyzing the characteristics of the collection resources of different user groups. * Then, it further analyzes the characteristics of each user to obtain the valuable information and achieve balanced and coordinated development of collection resources and personal needs. * Among this, data preprocessing includes three parts:  1. Data preparation 2. Data conversion 3. Data extraction |
| **EXISTING ALGORITHM**  Traditional functions | **PROPOSED ALGORITHM:-**  Data mining model processing methods |
| **DRAWBACKS:-**   * Can’t process the huge dataset * Can’t dynamically update the data. | **ADVANTAGES:-**   * Can adjust the proportion of allocation between different resources. * Better decision-making support for the discipline development in the university. * More reliable data support. |

**MINIMUMSYSTEM REQUIREMENTS**

**HARDWARE REQUIREMENTS**

* PROCESSOR : DUAL CORE 2 DUO.
* RAM : 2GB DD RAM
* HARD DISK : 250 GB

**SOFTWARE REQUIREMENTS**

* FRONT END : J2EE (JSP, SERVLET)
* BACK END : MY SQL 5.5
* OPERATING SYSTEM : WINDOWS 7
* IDE : ECLIPSE