The Influence of Data Mining Techniques in Library and Information Science

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With the fast expansion of computer technology and web technology, it guides in a new Internet era characterized by knowledge and information. There is an essential for a new generation of computer technologies and methods to develop the resources of information, and to be sophisticated, so as to become valuable and suitable knowledge. Data mining is an extraction of unknown analytical information from huge database. Data mining is the process of analyzing data from various viewpoints and briefs it into useful and needful information. Data mining includes the usage of sophisticated data analysis tools to find previously unfamiliar, usable patterns and associations in large data sets. These tools can include statistical models consequently, data mining consists of more than gathering and handling data; it also includes prediction after analyzing. With the massive volume of data stored in files, databases, and other repositories, it is progressively important to develop very powerful means for analysis and interpret data and extracting the useful and interesting information for good decision-making. Data mining is one step in the Knowledge Discovery in Databases (KDD) process. Data mining extract the inherent link of the heterogeneous information to promote the digital library. This paper describes data mining technologies relating with information science, introduces the process of data mining, illustrates the main features, explores applications in the digital library, specifies application meaning, analyzes the key problems of implementation in digital libraries, the actual assumption of this topic is how the data mining will be useful to extract knowledge from the data ware houses in the synthesized manner.

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