Abstract

With the evolution of distributed computing, the databases are inherently distributed across the
globe and therefore data analysis from various data sources is very essential in decision
making. The core need in the current industrial environment is hence to extract information
from the huge, complex and dynamic data through data mining techniques. Integrating data
from multiple data sources and analysing the large, complex dynamic data is a tedious and
complex work. Additionally, database consists of inconsistent and noisy data. Further, with the
decrease in quality of data to be mined the quality of knowledge model obtained from it also
decrease which inturn affects the decision making process. However optimization of data
preprocessing can resolve the aforementioned issues. This paper provides design and
development of data preprocessing software, based on intelligent agents. This software
enables data preprocessing operations to be performed in an automated mode, and gives
accurate results in lesser time when compared to manual data preprocessing.

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Index Terms

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