Abstract

There are many techniques to extract association rules from large datasets, but sometimes these datasets are distributed horizontally which is called strew database. In the strew database there are several sites or players that hold homogeneous database this database shares the same schema but hold information on different entities. For extracting association rules from such database the existing system is not so secure and efficient. The proposed system given here provides a secure and efficient solution for the problem stated above. Here we are going to use Fast Distributed mining (FDM) which is an unsecured distributed version of the Apriori algorithm. The proposed system gives enhanced version of FDM. Which offers enhanced privacy with respect to the protocol in [1] Also, it is more simple and significantly more effective in terms of communication rounds, communication cost and computational cost.

References

- X. Lin, C. Clifton, and M. Y. Zhu, &quot;Privacy-Preserving Clustering with Distributed EM Mixture Modeling,&quot; Knowledge and Information Systems, vol. 8, pp. 68-81, 2005.

Index Terms

Computer Science
Distributed System

Keywords
Privacy preserving data mining  distributed computation  frequent item sets  association rules