Abstract

Mining Association Rules from huge databases is one of the important issue that need to be addressed. This paper presents a new sampling based association rule mining algorithm that uses a progressive sampling approach based on negative border and Frequent pattern growth (FP Growth) algorithm for finding the candidate item sets which ultimately shortens the execution time in generating the candidate itemsets. Experimental results reveals that the proposed approach is significantly more efficient than the Apriori based sampling approach.

Reference

A Novel Progressive Sampling based Approach for Effective Mining of Association Rules

- J. Han, J. Pei, and Y. Yin,"Mining frequent patterns without candidate generation”, SIGMOD, 2000.
- V. Umarani, M. Punithavalli,” On developing an effectual progressive sampling based approach for Association Rule Discovery”, In the proceedings of 2nd IEEE ICIME Int'l conference on Information and Data Management”, Chengdu, China.
- Y. Zhao, C. Zhang and S. Zhang, “Efficient frequent itemsets mining by sampling,” Proceedings of the fourth International Conference on Active Media Technology (AMT), pp. 112-117,

Index Terms
Key words

Apriori          Negative border          FP-Growth
Sampling

Temporal Characteristics