

Puja Anil Naval Ashwini Sudhir Patil Pooja Vasant Sapkale Punam Ashok Patil Guided By Mr. Sandip S.

Outline

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Implementation of Enhanced Association Rule Mining on Horizontal Distributed Databases

Puja Anil Naval Ashwini Sudhir Patil Pooja Vasant Sapkale Punam Ashok Patil Guided By Mr. Sandip S. Patil

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Introduction

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UML Diagrams

- Data mining is the most fast growing area today which is used to extract important knowledge from large data collections, but sometime these collections are divided among several parties.
- Association rule mining is one of the data mining technique used in distributed databases.
- Association rule mining finds interesting associations and/or correlation relationships among large sets of data items.



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- Apriori algorithm is used to generate frequent item sets in a large amount of database. The frequent item sets determined by Apriori can be used to determine association rules.
- K & C is one of the existing protocol for mining of association rules in horizontally distributed databases.



Motivation

Implementation of Enhanced Association Rule Mining on Horizontal Distributed Databases

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The existing protocol for secure mining of association rules in horizontally distributed databases leaks the excess information so there is need of a protocol which improves data privacy.



Problem Definition

Implementation of Enhanced Association Rule Mining on Horizontal Distributed Databases

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- Proposed protocol is based on the FDM, which is an distributed version of the Apriori algorithm used to generates a small number of candidate sets and the number of messages to be passed at mining association rules.
- Extracting data from distributed database system more number of irrelevant data occur. Irrelevant data is avoided by using the Apriori algorithm.



Objective

Implementation of Enhanced Association Rule Mining on Horizontal Distributed Databases

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Objective

 Propose protocol is use for secure mining of association rules in horizontally distributed databases.

- The main element in propose protocol is a secure multiparty algorithms:
 - 1 computes the union of private subsets
 - 2 tests the inclusion of an element



System Requirement Specification

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UMI Diagram

Minimum Hardware Requirements includes:

- Hard Disk 40 GB.
- RAM 512 MB
- Floppy Drive
- Monitor
- Mouse
- Keyboard



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Software Requirements includes:

Operating system: Ubuntu/Windows

JDK 7

■ NetBeans 7.4

■ Database: LAMP/WAMP 2.0



Propose System

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- Propose protocol computes a parameterized family of functions, which call doorstep functions, in which the two cases communicate to the problems of computing the union and intersection of private subsets.
- In propose system inputs are the partial databases and the required output is the list of association rules.



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Propose System

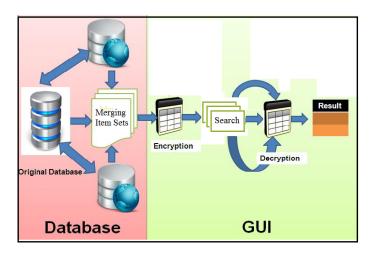


Figure: System architecture



Application

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- Medical System
- Shopping
- Banking Sector



UML Diagrams

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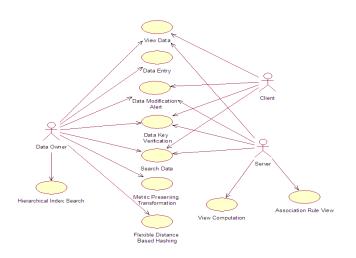


Figure: Use Case Diagram for DNA System



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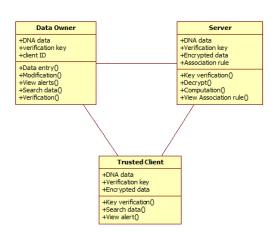


Figure: Class Diagram for DNA System



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