

- 8+ Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,DME,MS,PHD.

Projects with FUTURE WORK / LIVE DEVELOPMENT / FACE TO FACE CLASSES

ONLY PROJECT CENTER WITH OWN DEVELOPERS - CSE, IT,ECE,MECH,CIVIL,EEE

PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

Privacy-Preserving Outsourced Association Rule Mining on Vertically Partitioned Databases

ABSTRACT

Association rule mining and frequent itemset mining are two popular and widely studied data analysis techniques for a range of applications. In this paper, we focus on privacy preserving mining on vertically partitioned databases. In such a scenario, data owners wish to learn the association rules or frequent itemsets from a collective dataset, and disclose as little information about their (sensitive) raw data as possible to other data owners and third parties. To ensure data privacy, we design an efficient homomorphic encryption scheme and a secure comparison scheme. We then propose a cloud-aided frequent itemset mining solution, which is used to build an association rule mining solution. Our solutions are designed for outsourced databases that allow multiple data owners to efficiently share their data securely without compromising on data privacy. Our solutions leak less information about the raw data than most existing solutions. In comparison to the only known solution achieving a similar privacy level as our proposed solutions, the performance of our proposed solutions is 3 to 5 orders of magnitude higher. Based on our experiment findings using different parameters and datasets, we demonstrate that the run time in each of our solutions is only one order higher than that in the best non-privacy-preserving data mining algorithms.

MICANSINFOTECH PVT LTD : CADD COLLEGE : MICANS BANKING SCHOOL

No: 19, SIVAM TOWERS, III FLOOR, IG SQUARE,
VILLIANUR ROAD, PUDUCHERRY

No 798 c, NEHRUJI ROAD, VILLUPURAM
OPPOSITE TO MARKET COMMITTEE

WWW.MICANSINFOTECH.COM ; micansinfotech@gmail.com; +91 90036 28940; +91 94435 11725

WWW.MATLABPROJECTS.COM; WWW.MICANS.IN; WWW.MICANSIEEEPROJECTKART.COM

- **8+ Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, SWEDEN.**
- **Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET**
- **Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,DME,MS,PHD.**

Projects with FUTURE WORK / LIVE DEVELOPMENT / FACE TO FACE CLASSES

ONLY PROJECT CENTER WITH OWN DEVELOPERS - CSE, IT,ECE,MECH,CIVIL,EEE

PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

EXISTING SYSTEM

Frequent itemset mining and association rule mining, two widely used data analysis techniques, are generally used for discovering frequently co-occurring data items and interesting association relationships between data items respectively in large transaction databases. focus on privacy preserving mining on vertically partitioned databases. In such a scenario, data owners wish to learn the association rules or frequent itemsets from a collective dataset, and disclose as little information about their (sensitive) raw data as possible to other data owners and third parties. To ensure data privacy, we design an efficient homomorphic encryption scheme and a secure comparison scheme.

DISADVANTAGES

- Focus on privacy preserving mining on vertically partitioned databases not have a data privacy in Data Owner.
- The resource consumption at the data owner end is very low.

MICANSINFOTECH PVT LTD : CADD COLLEGE : MICANS BANKING SCHOOL

No: 19, SIVAM TOWERS, III FLOOR, IG SQUARE,
VILLIANUR ROAD, PUDUCHERRY

No 798 c, NEHRUJI ROAD, VILLUPURAM
OPPOSITE TO MARKET COMMITTEE

WWW.MICANSINFOTECH.COM ; micansinfotech@gmail.com; +91 90036 28940; +91 94435 11725

WWW.MATLABPROJECTS.COM; WWW.MICANS.IN; WWW.MICANSIEEEPROJECTKART.COM

- 8+ Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,DME,MS,PHD.

Projects with FUTURE WORK / LIVE DEVELOPMENT / FACE TO FACE CLASSES

ONLY PROJECT CENTER WITH OWN DEVELOPERS - CSE, IT,ECE,MECH,CIVIL,EEE

PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

PROPOSED SYSTEM

A privacy-preserving outsourced frequent itemset mining solution for vertically partitioned databases. This allows the data owners to outsource mining task on their joint data in a privacy-preserving manner. Based on this solution, we built a privacy-preserving outsourced association rule mining solution for vertically partitioned databases. Our solutions protect data owner's raw data from other data owners and the cloud. Our solutions also ensure the privacy of the mining results from the cloud. Compared with most existing solutions, our solutions leak less information about the data owners' raw data.

ADVANTAGES

- Our evaluation has also demonstrated that our solutions are very efficient.
- An efficient homomorphic encryption scheme and a secure outsourced comparison scheme were presented

MICANSINFOTECH PVT LTD : CADD COLLEGE : MICANS BANKING SCHOOL

No: 19, SIVAM TOWERS, III FLOOR, IG SQUARE,
VILLIANUR ROAD, PUDUCHERRY

No 798 c, NEHRUJI ROAD, VILLUPURAM
OPPOSITE TO MARKET COMMITTEE

WWW.MICANSINFOTECH.COM ; micansinfotech@gmail.com; +91 90036 28940; +91 94435 11725

WWW.MATLABPROJECTS.COM; WWW.MICANS.IN; WWW.MICANSIEEEPROJECTKART.COM

- 8+ Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,DME,MS,PHD.

Projects with FUTURE WORK / LIVE DEVELOPMENT / FACE TO FACE CLASSES

ONLY PROJECT CENTER WITH OWN DEVELOPERS - CSE, IT,ECE,MECH,CIVIL,EEE

PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

MICANSINFOTECH PVT LTD : CADD COLLEGE : MICANS BANKING SCHOOL

No: 19, SIVAM TOWERS, III FLOOR, IG SQUARE,
VILLIANUR ROAD, PUDUCHERRY

No 798 c, NEHRUJI ROAD, VILLUPURAM
OPPOSITE TO MARKET COMMITTEE

WWW.MICANSINFOTECH.COM ; micansinfotech@gmail.com; +91 90036 28940; +91 94435 11725

WWW.MATLABPROJECTS.COM; WWW.MICANS.IN; WWW.MICANSIEEEPROJECTKART.COM