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PONDICHERRY – VILLUPURAM – CUDDALORE-CHENNAI

INSIDER COLLUSION ATTACK ON PRIVACY-PRESERVING KERNEL-BASED DATA MINING SYSTEMS

ABSTRACT

In this paper, we consider a new insider threat for the privacy preserving work of distributed kernel-based data mining (DKBDM), such as distributed support vector machine. Among several known data breaching problems, those associated with insider attacks have been rising significantly, making this one of the fastest growing types of security breaches. Once considered a negligible concern, insider attacks have risen to be one of the top three central data violations. Insider-related research involving the distribution of kernel-based data mining is limited, resulting in substantial vulnerabilities in designing protection against collaborative organizations. Prior works often fall short by addressing a multifactorial model that is more limited in scope and implementation than addressing insiders within organization colluding with outsiders. A faulty system allows collusion to go unnoticed when an insider shares data with an outsider, who can then recover the original data from message transmissions (intermediary kernel values) among organizations.

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EXISTING SYSTEM:

Many data mining applications store huge amounts of personal information; therefore, extensive research has primarily focused on dealing with potential privacy breaches. One prime area of research in preserving privacy is the Support Vector Machine (SVM) . SVM is a very popular data mining methodology used mainly with the *kernel trick* to map data into a higher dimensional feature space as well as maintain archives with better mining precision results. With privacy protection in mind, Vaidya et al. provided a state-of-the-art privacy-preserving distributed SVM scheme to securely merge kernels .

DISADVANTAGES:

- DataOwnersOrganizations orClients: These organi-zations own the data and can be trusted. In a distributed computing environment, they may also participate in data mining tasks.
- Insiders: Members within the data owner's organiza-tion are semi-trusted. They may leak their own data to outsiders. The insiders leak nothing but the data content. For example, the data indices do not need to be leake.

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- Outsider: The entity does not belong to the data owner's organization. This group is semi-trusted and may col-lude with insiders. In a distributed environment, the data mining server,

PROPOSED SYSTEM:

We propose a random transformation scheme to preserve privacy. The process works by outsourcing the SVM training, thereby ensuring a lack of disclosure to the service provider of the actual content within the database. This privacy-preserving outsourcing method helps protect against the rst type of insider threat model mentioned above. We propose an ``m-privacy" technique, which deals with the so-called ``m-adversary" insider attack.

ADVANTAGE OF PROPOSED SYSTEM:

- We propose a distributed semiparamet-ric support vector machine (DSSVM) using kernels as basic units to reduce the communication information.
- Gönen et al. propose a multiple kernel machine learning model that describes the kernel as being a basic computing unit capable of possibly merging different types of kernel functions.

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- We will provide more detail about these proposals in the next section.

SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java
- Database : Mysql

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