

Network Traffic Data for Shopping Portal using Data Mining

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ABSTRACT

Computer and network system are becoming an important part of several organizations such as product trading and data services via Internet system. The network traffic data is the communication data of internal and external network. The data mining is a computation process to discover the useful information in repositories such as: relational database, data warehouses and so on data mining technique can extract the normal and abnormal pattern of the network traffic data. The main goal of this project is to create a shopping portal, which allows customers to shop and purchase the products online. Moreover, the project is also designed in such a way it lets managers manage the products information online. Customers can orders products, and they will be contacted to further process the orders. The network traffic data is the communication data of internal and external network. It represents the user behavior in the network. These data consist of normal and abnormal pattern behavior. Since it is a huge data size, the pattern behavior analysis and detection will take a long time to discover as the abnormal behavior.

Keywords: Association Rule , Apriori Algorithm, Data Mining.

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I. INTRODUCTION

The traditional technology such as firewall, anti-virus and so on, might prevent various kinds of the attack such as virus, malicious software. However, the attack patterns of attacker usually change at the time. Therefore, the policy of the network security is most importance. Computer and network administrators should always improve the network security policy. The analysis and detection of the abnormal pattern behavior in the network traffic data must spend a long time and very hard to find the intrusion pattern. However, the data mining technology can be utilized to extract normal and abnormal pattern behavior.

Data mining technique can extract the normal and abnormal pattern of the network traffic data. Firstly, the network traffic data is collected into the database, called preprocessing. Secondly, the network traffic data is converted into the specific format for utilizing in the data mining technique. An association rules technique is used. It was utilized widely to extract interesting information from the large database. There are two important parameters of the association rules technique, minimum support threshold

(min_sup) and minimum confidence threshold (min_conf), respectively. In order to understand, the association rule technique of the data mining. It was utilized to prevent the computer and network system from mischievous activity of user and attacker world-wide. Snort can be installed in the almost computer architecture and operating system.

Identification of Need

The network traffic data is the communication data of Internal and external network. The data mining is a computation process to discover the useful information in repositories such as: relational database, data warehouses and so on. Data mining technique can extract the normal and abnormal pattern of the network traffic data.

1.2 Present System in Use

The glory of Internet and its merits are being highly masked by the drawback associated with it. One of them the prime issue is Internet security, leading to data security issues. There are many system that provides an security .

1.3 Flaws in Current System

Recent solutions check whether the contents of the page being visited is similar user on a portal that checks the users daily shopping details and assuming his shopping limit. User Gives Input to the portal all data will store in database. Then data mining operations are performed.

User done shopping out of limit then sever sends email to user to conform the out of the limit shopping .

1.2. Recent Use of this Technology

Shopping portal done their work but there is issue of secure transaction and customer confirmation we are working on that and generates the secure data mining process.

II. LITRATURE REVIEW

“Applied Research On Data Mining Algorithm in Network Detection”. In this paper Discover New Pattern From Massive network data .This paper shows Improve rate of Intrusion Detection and conclude that this paper is reduce workload of manual compilation intrusion . In Next paper “Intrusion Detection System With the Data Mining Technologies” This paper. Distinguish data or abnormal & Norma l, Detects attack against computer system False positive, when normal attack is mistakenly classified and Reduce workload of manual compilation .“Association Rule Mining: A Technique for Revolution in Requirement Analysis ”. Useful for Job Search & Job Seeker .Increase market graph .It is difficult to find all frequent item sets in a database. Association rule mining has been applied to e-learning systems

III. PROPOSE SYSTEM DESIGN

System Architecture

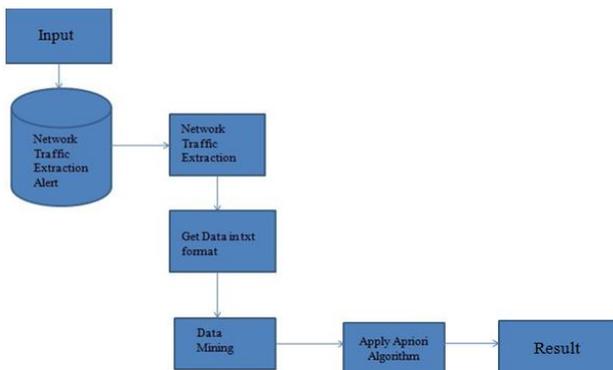


Figure: Proposed System Architecture

ALGORITHEM

Apriori is a calculation for incessant thing set mining and affiliation principle learning over value-based databases. It continues by recognizing the continuous individual things in the database and stretching out them to bigger and bigger thing sets the length of those thing sets show up adequately frequently in the database. The incessant thing sets dictated by Apriori can be utilized to decide affiliation rules which highlight general patterns in the database

System Design

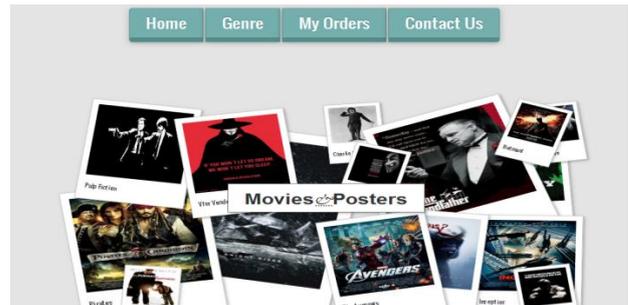


Fig 2:Home



Fig1: Login

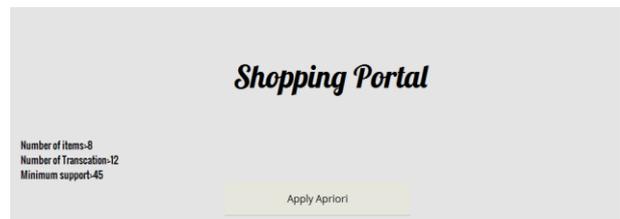


Fig:Result

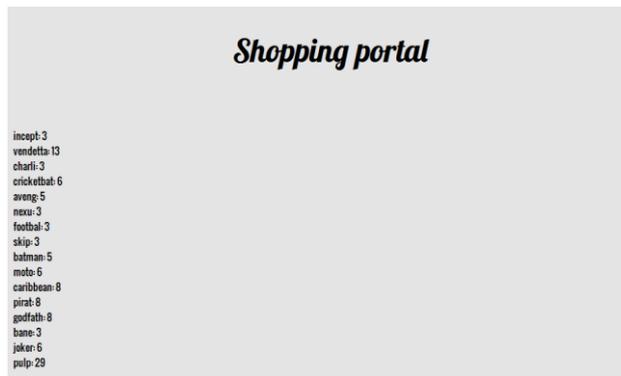


Fig: Result2

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IV. CONCLUSION

Information Mining is broadly utilized as a part of different regions like Credit Card Fraud Detection System, Health Insurance, Security System and Sensor Management, Online shopping framework, Distributed Clustering and some more. In this area, we will utilize information mining in web shopping framework as giving best arrangements and offers to clients, relationship between clients seeing items and buying items. It additionally manages grouping of clients on premise of their surveys about obtained items.

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