RESULTS AND COMPARISONS OF DATA MINING TECHNIQUES TO IMPROVE SOFTWARE RELIABILITY

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ABSTRACT

The aim of our study is to improve the reliability of the software, in this study we have implemented some of the data mining techniques to improve the software reliability they techniques used are the machine learning intelligence those techniques are the neural network and enhanced support vector machine, as the reliability of the software is main important in the system to avoid attacking the systems, we have taken some real data for training the system from KDD then implemented it to train the system and define all the attacks that may occur from any existing software that running in the systems or coming through the network or from the internet, by the use of the windows logs that exist pre-defined in the windows we can read all event occurring in the system as the system has to report the events occurring in the machine, by monitoring the logs and analyzing with the help of the machine learning algorithms of the NW and ESVM we get the results of what are the normal process and the attacks process and which type of attacks. we have been using both of the data mining techniques to define the attack's type usually the results we got was almost same in neural network and ESVM slightly littlemore accurate and efficient while using the ESVM, we have implemented and experimented both of the techniques in dot net software using C# language.

KEYWORDS: Data Mining Techniques, SE Include Generalization, Characterization, Classification, Clustering, Associative Tree, Support Vector Machines