

Genetically Optimized Neural Network with Lexical Features for Phishing Detection

Varsha Malik
M. Tech. Scholar
Dept. of Computer Science and Engineering
BSA College of Engineering and Technology,
Mathura (India)
varsha.mlk@gmail.com

Sanjay Kumar
Asst. Professor
Dept. of Computer Science and Engineering
BSA College of Engineering and Technology,
Mathura (India)
sanjaysingh.chauhan@bsacet.org

Abstract –Over the past few years, we applied several different methods to detect phishing web by means of known and new features. This paper gives strategies for distinguishing phishing sites by dissecting different components of phishing URLs. It talks about the systems utilized for identification of phishing sites in view of lexical features. We propose several novel highly effective lexical features to study the anatomy of URLs. We considered different data mining approaches for assessment of the features to show signs of improvement comprehension of the structure of URLs that spread phishing. This paper utilized Genetically Optimized Neural Network classifier algorithm. The simulation results provide the accuracy, specificity, true positive rate and false positive rate which is evaluated on the basis of Confusion matrix.

In order to detect and filter such kind of emails, Neural Network and Genetically Optimized Neural Network classifier are proposed to use for email classification and detection of spam mails. The performance of both the classifiers is evaluated in terms of Accuracy, Error, Time, Precision and Recall.

Keywords –E-Mail, GA-NN, SPAM, URL.