Literature Survey

Web Phishing Detection

TEAM ID: PNT2022TMID37408

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s. NO	TITLE	AUTHOR & YEAR	PROPOSED WORK	TOOLS USED / ALGORITHM	TECHNOLOGY	RESULTS	FUTURE SCOPE
1	Survey of review spam detection using machine learning tchniques	AUTHOR: Michael Crawford, Taghi M. Khoshogoftaa r, joseph D, Prusa, Aaron N. Richter & Hamzah Al Najada. YEAR: 05 October 2015	services. This practice is known as	-Random Forest Algorithm.	Machine Learning	ADVANTAGES: In recent years, review spam detection has received significant attention in both business and academia due to the potential impact fake reviews can have on customer behaviour and purchasing detection. DISADVANTGES: Although there are a large number of machine learning algorithms(learners) available, current research using supervised learning methods has been, for the most part, limited to three learners: Logistic Regression (LR), Navie Bayes (NB) and support Vector Machine (SVM).	to our survey they done a project only for the Review spam . But we are

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2	A Survey and classification of web Phishing detection schemes	AUTHOR: Manoj Misra,	Phishing is a fraudulent techniques that is used over the internet to device users with the goal of extracting their personal information such as username, passwords, credit card, and bank account information. The key to phishing is deception. Phishing uses email spoofing as its initial medium for deceptive communication followed by spoofed websites to obtain the needed information from the victims. This paper studies ,analyses, and classifies the most ignificant and novel strategies proposed in the area.		➤ Search engine-based technique. ➤ Heuristics and machine learning based technique. ➤ Phishing blacklist and whitelist-based technique. ➤ Visual similarity- based techniques. ➤ DNS-based techniques	ADVANTAGES: The paper focuses on the fact that phishing detection schemes perform better than phishing prevention and user training solutions because they do not require changes in authentication platforms and do not rely on the user's ability to detect phishing DISADVANTGES: If a webpage is carefully designed by Phisher the extracted features might not give enough information to detect Phishing It is difficult to detect phishing websites from their visual appearance or via security indicators on mobile phones due to their small screen size	According to our survey, we are going to work for giving it 100% Detection of sites.

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3	Phishing Website Detection Using Machine Learning Algorithms.	AUTHOR: Rishikhesh Mahajan, Irfan siddavata m. YEAR: October 2018	URLs extracting and analyze Various link by check with Backlisting with help of Machine Learning to increase accuracy.	Decision Tree Algorithm Random Forest Algorithm Support Vector Machine Algorithm	• Machine Learning	ADVANTAGES: It is 97.14% detection accuracy using random forest algorithm with lowest false positive rate. DISADVANTGES: It is that the Characteristics are not guaranteed to always exist in such attacks and false positive rate in detection is very high. It is also has a Negative effects on a business, including loss of money, loss of intellectual property	We are trying to reduce the false positive rate in detection.

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n p d a p o s 4 u ir e o lir f o	ntellige nt web- phishing detection and protecti on scheme using ntegrat ed features of mages, frames and text.	AUTHOR: M.A.Adebowale , K.T.Lwin , E.Sanchez , M.A.Hossain . YEAR: January 2019	various methodologies, have been proposed in the	 Decision Tree Algorithm Random Forest Algorithm. 	Machine Learning	ADVANTAGES: ❖ Adaptive Neuro- Fuzzy Inference System based robust scheme provide more accuracy. ❖ Combine features text, images & frames for phishing detection proof more detection. ❖ This is the first work that reflects the best unified text, image and frame feature. DISADVANTGES: ❖ Rules are generated by Neuro-Fuzzy logic are completely in agreement with the findings based on statistical analysis. ❖ The structure is not total interpretable.	We are trying to make a structure totally interpretabl e.

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5	Phishing Website Detection Based on Deep Convolution al Neural Network and Random Forest Ensemble Learning.	Quang Do, Ali Selamat, Ondrej Krejcar, Enrique Herrera- Viedma. YEAR: January	It proposes an integrated phishing website detection method based on convolution al neural networks (CNN) and random forest (RF).	 Linear Regression K nearest neighbour Support Vector Machine Random Forest XG Boost Naïve Bayes RNN Model CNN Model 	-Machine Learning - Deep Learning.	ADVANTAGES: Advantage is that the Third-party service is independent. There is no standard guideline for an optimal set of parameters that can produce the best performance accuracy. DISADVANTGES: Disadvantage is that the model cannot determine whether the URL is active or not, so it is necessary to test whether the URL is active or not before detection. Classical ML techniques still suffer from the lack of efficiency in detecting zero-day phishing attacks.	