LITERATURE SURVEY

Batch Number: B6-6M2E

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| S.NO | PAPER TITLE | PAPER CONCEPT | ADVANTAGE | DISADVANTAGE |
| 1 | LongfeiWu etal..., "Effective Defense Schemes for  Phishing Attacks on Mobile  Computing Platforms, " IEEE  2016, pp.6678-6691. | In this paper, author did a comprehensive study on the  security vulnerabilities caused  by mobile phishing attacks, including the web page phishing attacks. | Author propose MobiFish, a novel automated lightweight anti-  phishing scheme for mobile  platforms. MobiFish verifies the validity of web pages,  applications, and persistent  accounts by comparing thee actual Identity to the claimed  identity | Existing schemes designed for web phishing attacks on PCs  cannot effectively address the  various phishing attacks on mobile devices. |
| 2 | Surbhi Gupta etal., "A  Literature Survey on Social  Engineering Attacks: Phishing  Attacks," in International  Conference on Computing,  Communication and  Automation(ICCCA2016),201  6, pp. 537-540. | To fool an online user into elicit personal Information.  The prime objective of this review is to do literature survey  on social engineering attack:  Phishing attacks and techniques to detect attack. | The paper discusses various types of Phishing attacks such as Tab-napping, spoofing emails,  Trojan horse, hacking and how to prevent them. | Every organization has security issues that have been of great concern to u sets, site  developers, and specialists, in  order to defend the confidential data from this type of social engineering attack. |
| 3 | Guardian Analytics, "A  Practical Guide to Anomaly  Detection Implications of meeting new FFIEC minimum expectations for layered security". [Accessed : 08 Jan  2015] | Commercial and retail account holders at financial institutions of all sizes are under attacks by sophisticated, Organized,  Well-funded cyber criminals. | Anomaly detection solutions are readily available, are deployed quickly and immediately and  automatically protect all account holders against all types of fraud  attack with minimal Disruption to legitimate online banking activity. | Implementing anomaly detection will not only meet FFIEC Expectations, it will decrease the total cost of fraud, and will increase customer loyalty and trust. |
| 4 | SANS Institute, "Phishing : An  Analysis of a Growing  Problem",2007.  1417[Accessed : 23 May 2017] | This paper gives an in depth analysis of phishing : what it is,  the technologies and security  Weaknesses it takes advantage of the dangers it poses to end users. | In this analysis author explain the concepts and technology behind phishing, show how the threat is much more then just a nuisance or passing trend, and discuss how gangs of criminals are Using | Unfortunately, a growing number of cyber-thieves Are  using these same systems to  manipulate us and steal our private information. |

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|  |  |  | these scams to make a great deal of money. |  |
| 5 | J. Phys.: Conf. Ser. "A literature survey on  Retraction: Phishing website detection using machine  learning and deep learning  techniques" 1916 (2021)  012407. | Nowadays, website phishing is more damaging. It is becoming a big threat to people’s daily life and networking  environment. In these attacks,  the intruder puts on an act as if  it is a trusted organization with  an intention to purloin liable  and essential information.  The methodology we discovered is a powerful technique to detect the  phished websites and can provide more effective  defenses for phishing attacks  of the future. | The association between independent variables as well as dependent variables can be formed without any presumptions about the statistical depiction of the aspect. It contributes positive gains on regression algorithm which includes its competence to act with noisy data. | The ANN's are not suitable for infrequent or utmost events  where data is inadequate in order to train it.  ANNs do not permit the embodiment of human mastery  to be substitutive for perceptible proof. |
| 6 | "Phishing Website Detection  Based on Deep Convolutional  Neural Network and Random Forest Ensemble Learning"  ,This research was funded by the National Key R & D  Program of China Grant Numbers 2017YFB0802800 and Beijing Natural Science  Foundation (4202002) | This paper proposes an integrated phishing website detection method based on  convolutional neural networks  (CNN) and random forest (RF).  The method can predict the legitimacy of URLs without  accessing the web content or  using third-party services. The proposed technique uses character embedding  techniques to convert URLs  into fixed-size matrices, extract features at different levels | A 99.35% correct classification rate of phishing websites was obtained on the  dataset. Experiments were  conducted on the test set and  training set, and the experimental results proved that the proposed method has good generalization  ability and is useful in practical  applications. | It takes longer to train.  However, the trained model is better than the others in terms  of accuracy of phishing website detection. Another  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 to ensure the  effectiveness of detection. In addition, some attackers use  URLs that are not imitations of |
|  |  | using CNN models, classify multi-level features using  multiple RF classifiers, and, finally, output prediction  results using a winner-take-all  approach. |  | other websites, and such URLs will not be detected. |