WEB PHISHING DETECTION

Literature Survey:

[1] In this paper, the authors proposed a system with a collection or set of Hybrid features to classify websites based on machine learning algorithms. The main feature set is extracted using the cumulative distribution gradient technique, while the data perturbation ensemble technique is used to extract the secondary feature set. The algorithm used for training the classifier is Random Forest in association with ensemble learner identifies the phishing websites with a precision of 94.6 percent.

[2] When Kiren et al presented a review on different types of phishing attacks and detection techniques. Also they presented some mitigation techniques of phishing. The paper proposed that 100% accuracy to detect phishing can be made possible by using machine learning approach among all other anti-phishing approaches.

[3] Rana et al presented a review and comprehensive examination of the modern and state of the art phishing attack techniques to spread awareness of phishing techniques among the reader and to educate them about different types of attacks. The author proposed this paper to encourage the use of anti-phishing methods as well.

[4] Kang Ling Chiew et al presented the comprehensive and technical current and past phishing approaches in their paper. They claimed to provide better knowledge about the types, nature and characteristics of current and past phishing approaches through their research. The study revealed that due to the emerging technology and use of cloud computing and mobiles, the anti-phishing techniques are much needed specifically in these areas where technology is heavily involved. A great number of phishing attacks happen due to browser vulnerabilities and phishing websites.

[5] Christina D Stafford highlighted the factors and impacts of phishing attacks on human and how human become victim of these attacks. The research highlighted that human becomes the victim of phishing because of their own personality traits and habits such as narcissism, gullibility and habitual email use. The research revealed that from all the phishing techniques spear phishing is most targeted form of phishing.

[6] Kanju Merlin et al performed the survey method to detect phishing techniques and algorithms. The survey resulted in providing many solutions and approaches to attacks detection. They showed that many of the proposed approaches are not capable enough to provide the solutions of attacks.

[7] Belal Amro presented types of phishing attacks in mobile devices and different mitigation techniques and anti-phishing techniques. Also they provided important steps to protect against phishing in mobile systems. The paper highlighted that current anti-phishing techniques have some shortcomings which makes them less efficient in detecting phishing attacks.

[8] Athulya et al discussed the different phishing attacks, latest phishing techniques used by the phishers and highlighted some anti-phishing approaches. The paper raises awareness about phishing attacks and strategies and urge the readers to practice the anti-phishing approaches. The paper proposed a phishing detection approach which helps to detect phishing website in an efficient way.

[9] Yunjia Wang et al presented a phishing prevention technique in their paper. They proposed a scheme to implement optical character recognition system on an android mobile platform. They performed experiments under hijacking attacks to check the accuracy of the proposed prevention technique. They claimed that their proposed OCR techniques are good enough to identify the phishing websites also it can overcome the problems and limitations on existing solutions.

[10] Moul, Katelin A et al Highlighted the steps and efforts in the fight against phishing. A team consisting of some members, did these efforts and conducted different awareness sessions and workshops for the internet users to encourage the use of antiphishing techniques and make them aware of using everything on the internet. They concluded that to combat phishing attacks, awareness sessions should be ongoing once.