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| S.No | Reference Paper | Algorithm | Advantage | Disadvantage |
| 1. | M. Chandrasekaran, et al., ”Phishing email detection based on structural properties”, in New York State Cyber Security Conference (NYS) , Albany, NY ,” 2006 | Support Machine  Vectors(SVM) Classifiers | With every data set an accuracy of 96% is reached and accuracy of 99% is with SVM. | Small data set-only 200 emails, therefore very time consuming. |
| 2. | P. R. a. D. L. Ganger, ”Gone phishing: Evaluating anti-phishing tools for windows. Technical report, ,” September 2006 | Bayesian statistics  100,000 email algorithms | Uses the feedback data from the Users of Microsoft | Uses fixed number of features and low recall measurement. |
| 3. | . M. Bazarganigilani, ”Phishing E-Mail Detection Using Ontology Concept and Nave Bayes Algorithm,” International Journal of Research and Reviews in Computer Science, vol. 2,no.2, 2011 | Semantic ontology  Concept by method  Information Gain and naïve Bayes algorithm classifies | Working of model is very simple, in five steps to be exact. | Accuracy is low in comparison with other methods. |
| 4. | I. Fette, et al., ”Learning to detect phishing emails,” in Proc. 16th International World Wide Web Conference (WWW 2007), ACM Press, New York, NY, USA, May 2007, pp. 649-656 | Random forest and support vector machines (SVM) as a classifier | Has a lot of different features included WHOIS query | Sizeable number of phishing and ham emails was not well classified leading to decrease in accuracy. |
| 5. | M. Chandrasekaran, et al., ”Phoney: Mimicking user response to detect phishing attacks,” in In: Symposium on World of Wireless, Mobile and Multimedia Networks, IEEE Computer Society, 2006, pp. 668-672 | PHONEY-Mimics user response | Is implemented between a user’s MTA and MUA | Collected data is so small and is time consuming. |
| 6. | A. Bergholz, et al., ”Improved phishing detection using model-based features,” in Proc. Conference on Email and Anti-Spam (CEAS). Mountain View Conf, CA, aug 2008 | Dynamic Markov chain and a class Topic Models | Has a large number of features which increases accuracy. | Due to the large number of features , there is a high memory requirement. |
| 7. | L. Ma, et al.,”Detecting phishing emails using hybrid features,”IEEE Conf, 2009, pp. 493-497 | Information gain algorithms, Decision tree algorithm, C4.5 | Has seven hybrid features and appears in five stages. | Used a non-standard data set. |