

LITERATURE SURVEY

S.NO	ANTI-PHISHING APPROACH	TECHNIQUE USED	ZERO – HOUR ATTACK DETECTION	DATASET USED	LIMITATIONS
1	Auto updated whitelist	<ul style="list-style-type: none"> • Lists • Heuristics and search methods 	Yes	Dataset was collected from phishtank, Alexa, and stuffgat	The detection accuracy can be improved by adding more features with hyperlink features
2	Phish Shield	<ul style="list-style-type: none"> • Lists • Heuristics and search methods 	Yes	1600 phishing websites were collected from the PhishTank and 250 legitimate sites were collected randomly	Phishing sites that do not mimic the legitimate websites are bypassed in phish shield
3	A phish detector using lightweight search features	<ul style="list-style-type: none"> • Heuristics and search methods 	Yes	dataset was collected from Alexa and PhishTank	Produce high FPR while detecting non-english webpages;
4	Intelligent phishing URL detection using association rule mining	<ul style="list-style-type: none"> • Heuristics • ML 	Yes	Dataset was collected from PhishTank, Alexa, Yahoo most visited sites, Alexa's top targeted sites, and StuffGate	The computational complexity varies based on the number of instances used

5	Off-the-hook	<ul style="list-style-type: none"> • Lists • Heuristics and search methods 	Yes	The dataset was collected from PhishTank	HTML source code features may not be computed accurately
6	Detecting phishing websites and targets based on urls and webpage links	<ul style="list-style-type: none"> • Heuristics • ML 	Yes	2892 phishing URLs were collected from PhishTank and 3305 legitimate URLs were collected from Alexa's top one million ranking	Computationally expensive
7	ML-based phishing detection from URLs	<ul style="list-style-type: none"> • Heuristics • ML 	Yes	37,175 PhishTank URLs and 36,400 legitimate URLs were collected from Yandex search API	URLs that contain only a single domain name cannot be detected mostly
8	Optimal feature selection (OFS)-NN	<ul style="list-style-type: none"> • Heuristics • ML 	Yes	Dataset was collected from Alexa and PhishTank	Feature sensitive is necessary to collect more features to perform OFS