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| **S.NO** | **ANTI-PHISHING APPROACH**  **LITERATURE SURVEY** | **TECHNIQUE USED** | **ZERO – HOUR ATTACK DETECTION** | **DATASET USED** | **LIMITATIONS** |
| 1 | Auto updated whitelist | * 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 | * 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 | * 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 | * 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 | * 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 | * 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 | * 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 | * Heuristics * ML | Yes | Dataset was collected from Alexa and PhishTank | Feature sensitive is necessary to collect more features to perform OFS |