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Phishing URL Detection using Bayesian Optimized Random Forest Classifier

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Abstract – **Internet scams are numerous and varied. Anyone is likely to be the target of an attack while browsing the net. More and more crooks do not hesitate to use Social Engineering as a lever to acquire sensitive data unfairly by exploiting human flaws. Phishing is a Social Engineering technique used by these hackers. It is used to steal personal information in order to commit an identity theft without the knowledge of their victims. The persuasion power of these crooks is the keystone of a successful attack. This paper presents a model with the highest precision results which consists of Bayesian optimized support vector machine classifier. The performance of proposed framework is evaluated using accuracy, precision and sensitivity.**

Keywords – **Bayesian Optimization, Phishing URL, Random Forest Classifier.**