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Design and Analysis of Machine learning based QR Phishing Detection System

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Abstract: *Information and communication technology's (ICT) quick development has greatly increased daily convenience, but it has also brought up new cybersecurity issues. These include QR code phishing assaults, also referred to as "quishing," which take advantage of consumers' confidence in QR-based interactions to become a dishonest and potent cyberthreat. This study examines the mechanics underlying QR code phishing, assesses the risks related to its extensive use, and suggests a security-focused strategy to lessen such attacks. The limitations of solely technology-driven solutions are highlighted by this study's review of current mitigation measures, which also underscores the need to integrate security education, behavioral analysis, and user awareness. In order to improve automated attack prevention, the study also researches machine learning-based methods of detection for identifying phishing URLs found in QR codes. This article seeks to improve cybersecurity defenses against the increasing threat of QR code phishing attempts by taking a holistic approach that combines technology innovations with human-centric tactics..*

Keywords: QR-Code , Phishing Attack , Cyber Security , Machine Learning, Threat Detection , Cryptography

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