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(57) Abstract :

The invention is a system designed to detect and respond to phishing attacks in login sequences. It incorporates multiple components that work together to enhance security and protect users from potential threats. The system includes a Login Failure Detector (102) on user devices (112) that continuously monitors login failure sequences and identifies abnormal patterns indicative of phishing attacks. These sequences are further analyzed using a Machine Learning Algorithm (104) trained on known phishing attack patterns. When a phishing attack is detected, the system's Response Module (106) takes appropriate actions such as blocking suspicious IP addresses, alerting users, and reporting incidents to authorities. The system integrates with secure storage systems (108) to store and encrypt user credentials, ensuring the protection of sensitive information. By leveraging real-time monitoring, advanced analysis techniques, and proactive measures, the invention provides an effective solution to address the rising challenge of phishing attacks, helping individuals and organizations safeguard their sensitive information and prevent unauthorized access.

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