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(57) Abstract :

A system (100) and a method (200) for real-time vulnerability assessment and response. The system (100) utilizes machine learning and predictive analytics techniques to continuously monitor, analyze, and detect potential vulnerabilities in computer systems, networks, and applications. By combining these technologies, the invention enhances the efficiency and accuracy of vulnerability assessment processes and enables organizations to proactively respond to and mitigate cybersecurity risks. The system (100) finds applications in industries and organizations where the protection of sensitive data and assets is crucial, including but not limited to financial institutions, government agencies, healthcare organizations, and large enterprises.

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