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(57) Abstract :

The invention discloses an AI-enabled framework for real-time cyberattack risk assessment comprising a distributed monitoring system (101), a risk assessment engine (102), a predictive analytics module (103), an automated response unit (104), and a dashboard interface (105). The system integrates anomaly detection, predictive modeling, and automated response mechanisms into a unified architecture. It continuously collects and analyzes traffic logs, user activities, and device behavior to assign dynamic risk scores. The invention ensures proactive cybersecurity by detecting threats with high accuracy, predicting attack vectors, and executing automated mitigation strategies in real time.

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