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(57) Abstract :

The present invention discloses an AI-based framework for automated cybersecurity policy enforcement comprising a Policy Translation Engine (101), Anomaly Detection Module (102), Enforcement Engine (103), Compliance Monitor (104), and Feedback Loop (105). The system dynamically interprets policies, detects anomalies, and enforces security actions across heterogeneous infrastructures. It ensures regulatory compliance, reduces human error, and provides adaptive, real-time threat mitigation. The framework operates autonomously with self-learning capabilities, making it scalable for enterprises of varying sizes and applicable across industries.

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