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(57) Abstract :

The cybersecurity system (100) is a holistic defense mechanism for fortifying authorized cybersecurity services. It comprises a network of data collection nodes (102) perpetually ingesting data from diverse sources, channeled through a data preprocessing module (104) for refining and standardizing. Machine learning servers (106) with specialized processors conduct real-time data analysis, while a knowledge base server (110) maintains an updated repository of vulnerabilities and attack vectors. An adaptation and learning module (112) ensures adaptability to emerging threats by continuously updating knowledge bases and detection models. A vulnerability assessment and reporting module (114) rigorously evaluates identified vulnerabilities, prioritizing them for efficient resource allocation. Additionally, the system includes a real-time analysis module (108) for swift threat identification, a predictive analytics module for forecasting, and a continuous improvement feedback loop to enhance user-driven development, collectively offering a comprehensive and adaptable cybersecurity solution.

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