MAJOR PROJECT

TOPIC :

SIEM Implementation for Financial Fraud Detection/Cryptocurrency Fraud Detection

OBJECTIVE :

- To design and implement a Security Information and Event Management (SIEM) solution tailored to detect financial fraud and cryptocurrency-related fraud in real-time.
- To integrate advanced machine learning algorithms and threat intelligence for improved detection accuracy.
- To ensure compliance with financial regulations and reduce the number of fraud incidents within financial institutions and cryptocurrency exchanges.

ABSTRACT :

In today's digital economy, the rise of financial and cryptocurrency transactions has been accompanied by a corresponding increase in fraud. This project focuses on implementing a Security Information and Event Management (SIEM) system designed to detect fraudulent activities in real-time. By leveraging large-scale data aggregation from diverse financial systems and cryptocurrency networks, the system processes and correlates events to identify suspicious activities.

The SIEM system integrates external threat intelligence feeds, machine learning models for anomaly detection, and real-time alerting mechanisms to ensure immediate responses to potentially fraudulent transactions. With a focus on scalability and high performance, the system is designed to handle the large volume of transactions occurring within modern financial and crypto ecosystems. This project will provide a secure and efficient fraud detection mechanism that will be invaluable for banking institutions, cryptocurrency exchanges, and regulatory bodies.

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