Intelligent Agentic AI Cybersecurity Platform

Autonomous threat detection and response system for enterprise security

Proposed Solution

Real-time Monitoring

Continuous network traffic analysis with ML pattern recognition

Predictive Defense

Zero-day attack prediction using behavioral anomaly detection

Multi-Org Coordination

Cross-enterprise incident response and threat intelligence sharing

Technical Approach

Core Components

- Neural network traffic analysis
- Adaptive ML threat models
- Distributed agent architecture
- Privacy-preserving data processing

Feasibility & Challenges

Current Status

50% complete: Core ML models and monitoring framework implemented

Key Challenges

- Privacy-preserving in
data sharing
- Real-time processing
enterprise scale
- False positive reducti

Viability

Leveraging existing cloud infrastructure and proven AI/ML frameworks

Ma

References & Next Steps

Key Technologies

- TensorFlow/PyTorch ML frameworks
- Apache Kafka for real-time streaming
- Federated learning protocols
- MITRE ATT&CK framework

Development Roa

1. Complete predictive m training
2. Implement cross-org coordination
3. Deploy pilot testing en
4. Scale to production de

Ma

Team Member and roles

1 : R.sanjeev ram

Role : UI/Frontend, Artificial Analysis, Model Deployment .

Member 2 : dharaneesh

Role : Artificial Analysis, Dataset Creation.

Member 3 : kavina

Role : artificial analysis support.

Member 4 : kanishka

Role : Presentation