

1.1 The Thought Behind the Project :

Step 1: Various Ideas from Each Group Member

- Analyzing different types of cyber threats (malware, phishing, DDoS, ransomware).
- Studying real-world cyberattacks and their impact.
- Emerging threats in AI and IoT security.

- Role of firewalls, IDS/IPS, and network security tools.
- Implementing multi-factor authentication for enhanced security.
- Encryption techniques for secure data transmission.

- Using AI for threat detection and response.
- Developing an AI-based phishing detection system.
- Analyzing the role of behavioral analytics in cybersecurity.

- Understanding the role of firewalls in cybersecurity.
- Best practices for secure coding and software development.
- Exploring AI-based solutions for cyber threat detection.

1.2 Features :

Data Collection & Integration

Ensures secure and efficient gathering of cybersecurity data from multiple sources.

Risk Assessment

Evaluates potential threats and vulnerabilities to mitigate security risks proactively.

AI-Powered Analytics

Leverages machine learning to detect anomalies and predict cybersecurity threats.

Trend Analysis

Monitors security trends to identify recurring threats and patterns.

User-Friendly Dashboard

Provides an intuitive interface for monitoring and managing cybersecurity data.

Alerting & Reporting

Generates real-time alerts and detailed reports on security incidents.