



Neural Strike

BUSN30135: AI and Financial Information

Team Name: Humorous Judicious Cobra

Team Members



Caesar Lupercal

A strategic leader with years of multi-industry investment experience, growth equity involvement, and senior roles in telecom, film production, and investment banking



Christian Bohren

Founder & Principal Security Engineer at Greatheart, an Offensive Security Engineering Firm, and an MBA candidate at Chicago Booth



Prathamesh M. Saygaonkar

Corporate Strategy and M&A at Danfoss; Equity Research Analyst at Goldman Sachs, and an MBA candidate at Chicago Booth



Terence Fernandes

Over a decade at Visa with experience in a Cybersecurity startup prior, Terence is currently a Cybersecurity Sr. Director leading the global Enterprise, Mobile, IoT & Mac Security. He is a MBA candidate at Booth.

Today's Security Challenges



- > **Acute Security Talent Shortage:** Workforce gap of 4.8 million professionals globally



- > **Expanding Attack Surface:** Cloud services, IoT, and distributed workforces increase vulnerabilities.



- > **Siloed Security Operations:** Traditional separation of Red and Blue teams creates inefficiencies and communication gaps.



- > **Compliance Burden:** Mounting regulations like GDPR, PCI DSS, HIPAA demand frequent assessments and documentation.

Neural Strike: Revolutionizing Cybersecurity with AI

AI-driven cybersecurity platform

Unified workflow

Offensive

Automate

Penetration Testing

Defensive

File Analysis

Actionable Defensive
Strategies

Streamline Compliance Processes

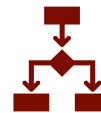
How do we stand out?



> Unified Offense-Defense Platform



> Scoring of generated security strategies recommendation and implementation gaps



> Multiple AI Model Flexibility; No vendor lock-in



> Tool-Specific Action Plans: Translates strategies into executable commands



> Chatbot to answer questions

Why It Matters: Addressing Critical Challenges

The Need for AI-Powered Security

- > AI-driven cyber threats growing in sophistication.
- > Manual penetration testing becoming expensive and time-consuming.
- > Traditional security defenses failing to prevent modern attacks.

Our platform solves these challenges by

- > Bridging offense & defense to provide a unified security approach.
- > Automating security processes to reduce reliance on human expertise.
- > Providing real-time, AI-driven responses to security threats.

How does it work?



Offense: AI-Powered Penetration Testing



Defense: AI-Based Security & Monitoring

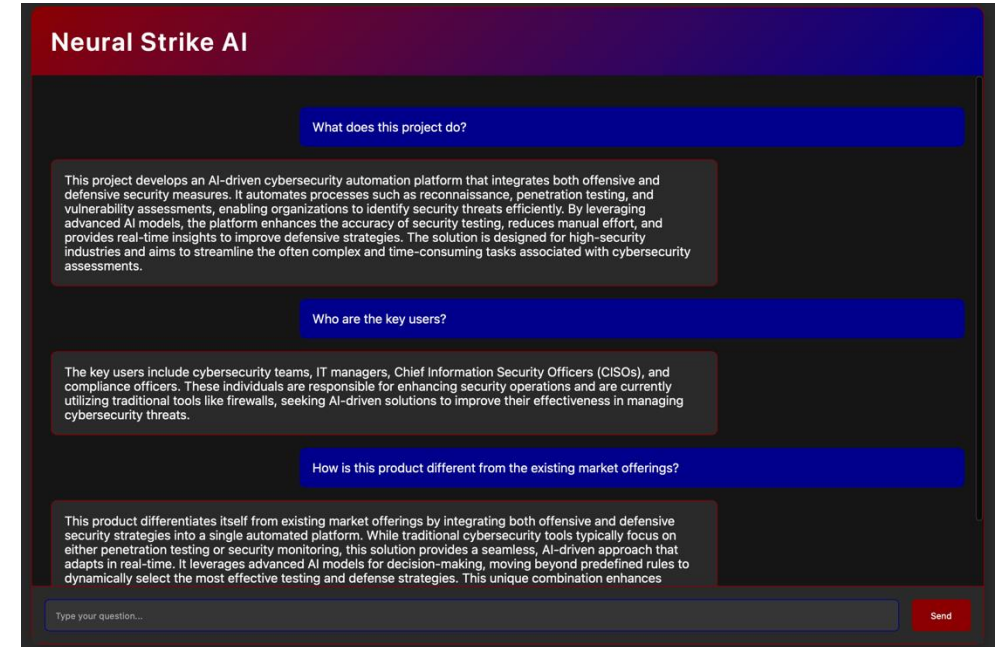
- > Leverages various LLMs to generate methodologies mapped to industry standards like OWASP and NIST
- > Uses multi-model peer-review to evaluate the methodology and tailor it to the use cases and context
- > Guide the analyst through the pen-test process with the option to fully automate it through Agentic tools

Neural-Strike Interactive Assistance Chatbot

Key Features

- > Provides real-time guidance on methodology implementation
- > Answers technical questions about security tools and techniques
- > Helps interpret AI-generated offensive and defensive recommendations
- > Offers contextual assistance during penetration testing and hardening activities

"Our integrated chatbot reduces the learning curve for new users while providing advanced teams with immediate access to detailed security information without disrupting their workflow."



"Think of it as having a cybersecurity expert available 24/7 to guide your team through complex security procedures."

Who We Serve: Target Industries & Customers

Industries



Finance: Banks, hedge funds, payment processors (must comply with PCI DSS, SOC 2).



Healthcare: Hospitals, telemedicine providers (need HIPAA-compliant security).



Technology: SaaS platforms, cloud providers, data centers.

Use Cases



Automated penetration testing to find vulnerabilities before hackers do.



Continuous security monitoring for cloud and on-prem infrastructure.



AI-driven compliance validation to meet regulatory standards.

Buyer Personas



Cybersecurity Teams – Need automation to enhance efficiency



IT Managers – Require integrated solutions for security



Chief Information Security Officers (CISOs) – Need proactive security to meet compliance.



Compliance Officers – Ensure regulatory adherence with audits.

Why Our Solution Stands Out

What makes it unique:

Our AI-driven cybersecurity platform is the first to seamlessly integrate offensive and defensive security strategies into a single, automated system.

Key Differentiators

- > **AI-Driven Decision Making:** Unlike traditional tools, our platform uses LLMs and machine learning to dynamically adapt security strategies.
- > **Automation at Scale:** Combines AI-powered penetration testing with automated security hardening, reducing manual effort while improving accuracy.
- > **Self-Learning System:** Continuously improves based on past assessments, making security more adaptive over time.
- > **Customizable & Modular:** Works across different security environments, including web applications, cloud infrastructure, and mobile security.

Demo

Thank you!
Q&A