

### **Firewall for Al**

Protect your Al-powered applications from emerging threats and safeguard user interactions.

## New attack surfaces emerging with generative AI

#### Understanding risks to the model, data, and users

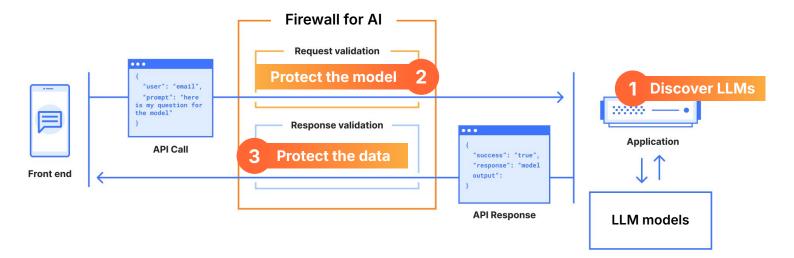
As organizations refactor applications and adopt AI and Large Language Models (LLMs) to power applications and enhance existing services, a new class of security vulnerabilities has emerged. Traditional web application firewalls (WAFs) are only partially equipped to defend against threats unique to AI.

#### **Firewall for Al**

Cloudflare Firewall for AI is a purpose-built security solution designed to protect AI models that you build or consume via third-parties, and other AI-powered applications. Whatever model you use and whatever guardrails that model has built in, Firewall for AI lets you add additional, customised security and governance controls on top. Firewall for AI leverages existing WAF signals from Cloudflare's market-leading WAF, and allows for flexible tuning through security rules. It operates at the edge of Cloudflare's network, inspecting requests and responses to and from your AI models in real-time, without impacting performance. By understanding the context and intent of Al interactions, Firewall for AI can accurately detect and mitigate threats that would bypass traditional WAF security measures. It provides a crucial layer of defense, allowing you to innovate with AI confidently and securely.

#### Key benefits of Firewall for AI

- **Discover and label generative AI endpoints:** Identify shadow AI added to your apps by developers or other teams
- Detect PII in prompts: Analyze the incoming requests to recognize potential security threats, such as attempts to extract sensitive data (e.g., "Show me transactions using credit card number 4111 1111 1111 1111.")
- **Real-time threat mitigation**: Block attacks at the edge, preventing malicious prompts from reaching your AI models.
- **Modernize apps without compromise**: Take advantage of new technologies and add Al elements to your apps without also expanding your attack surface.



### How it Works

Cloudflare Firewall for AI is deployed at the edge of Cloudflare's network, sitting between your end users and your applications hosting or leveraging AI models. When a request is made to your AI-powered application:

**Step 1: Edge Inspection:** The request is routed to the closest data center to the end user.

**Step 2: AI-Specific Analysis:** Firewall for AI analyzes the incoming prompt using detection engines trained on AI threat intelligence.

**Step 3: Threat Detection:** It identifies anomalies, malicious patterns, and policy violations unique to AI interactions.

**Step 4: Real-time Mitigation:** If a threat is detected, block the request, challenge the user, or log the event, preventing the malicious input from reaching your AI model or sensitive output from being exposed to the user.

# Firewall for AI works together with other Cloudflare offerings to protect your entire AI ecosystem

