

Security Scan Report for ai-security-scanner.vercel.app

Created by: Ayash Ahmad
Email: bhatashu666@gmail.com

Security Scan Summary

Executive Summary

The security scan of ai-security-scanner.vercel.app revealed an overall security score of **63%** with a **MEDIUM** risk level. The scan identified 0 critical, 1 high, 2 medium, and 3 low severity issues across 1 URLs.

Key Findings

- **missing_csp** (high): Add Content-Security-Policy - Found on 1 pages
- **x_content_type_options** (medium): Set X-Content-Type-Options: nosniff - Found on 1 pages
- **clickjacking** (medium): Add X-Frame-Options or frame-ancestors in CSP - Found on 1 pages
- **missing_referrer_policy** (low): Add Referrer-Policy - Found on 1 pages
- **missing_permissions_policy** (low): Add Permissions-Policy - Found on 1 pages

Top Recommendations

1. Implement a Content Security Policy (CSP) to prevent XSS attacks by specifying which dynamic resources are allowed to load.
2. Prevent clickjacking attacks by implementing X-Frame-Options or frame-ancestors in your Content Security Policy.
3. Regularly update all software components and dependencies to patch security vulnerabilities.
4. Implement a web application firewall (WAF) to protect against common web attacks.
5. Conduct regular security assessments and penetration testing to identify and address vulnerabilities.

Remediation Steps

1. **Security Headers:** Implement all missing security headers in your web server configuration or application code.
 - Add Content-Security-Policy to restrict resource loading
 - Enable Strict-Transport-Security with a long max-age
 - Set X-Content-Type-Options to nosniff
 - Configure X-Frame-Options or frame-ancestors in CSP
2. **HTTPS Implementation:** Ensure all pages are served over HTTPS.
 - Obtain an SSL certificate (Let's Encrypt offers free certificates)
 - Configure your web server to redirect HTTP to HTTPS
 - Update all internal links to use HTTPS
3. **Cookie Security:** Review and update all cookies with proper security flags.

- Add Secure flag to ensure cookies are only sent over HTTPS
- Add HttpOnly flag to prevent JavaScript access to sensitive cookies
- Set SameSite attribute to Lax or Strict to prevent CSRF attacks

This analysis was generated automatically based on the scan results. For a more comprehensive assessment, consider engaging a security professional.