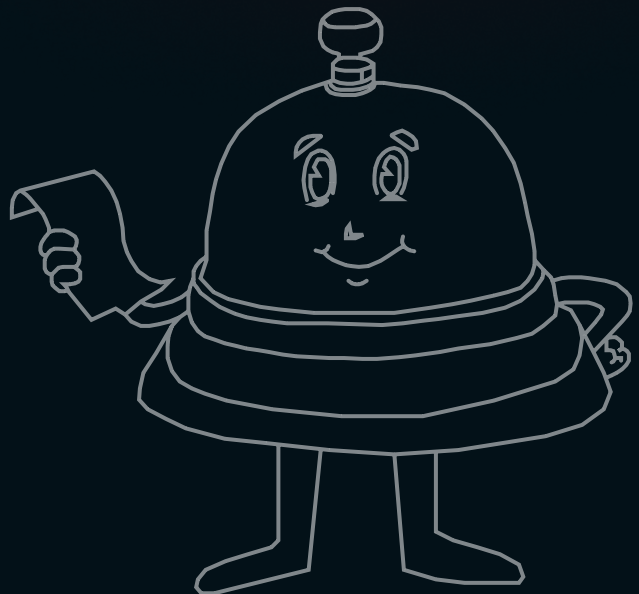




KLEAP

CYBERSECURITY

AI-Powered Radiology Workflow Platform (United States)



Client Overview

XYZ AI, Inc., a subsidiary of XYZ, Inc., is a leader in advanced visualization technology for medical imaging with over 20 years of industry expertise. The company develops cloud-based, zero-footprint imaging SDKs and clinical applications, empowering radiologists and healthcare IT providers with cutting-edge visualization and workflow solutions.

Objective

To enhance radiology workflows by integrating vendor-neutral AI algorithms into PACS systems, enabling radiologists to visualize, validate, and interact with AI-driven findings in real time. The goal was to deliver a scalable, cloud-based solution that supports multi-tenant deployments while maintaining compliance with DICOM standards and healthcare IT interoperability requirements. To ensure the security of their Android and iOS mobile applications while aligning with MVC and CRFR compliance standards in Saudi Arabia.

KLEAP's Approach


Conducted a comprehensive security and compliance assessment of the XYZ's AI platform. Evaluated cloud deployment architecture, ensuring secure multi-tenant isolation and adherence to healthcare IT regulations.

Assessed integration with PACS and hospital information systems, focusing on secure DICOM and DICOMweb API communications.

Validated AI algorithm visualization workflows, ensuring radiologists could safely accept/reject findings without compromising patient data integrity.

Provided white-label security readiness support for OEM partners deploying the platform in diverse healthcare environments.

Outcome

-  Strengthened platform resilience by mitigating vulnerabilities across cloud, API, and PACS integration layers. Enabled radiologists to confidently adopt AI-driven workflows with secure validation mechanisms.
-  Enhanced trust among hospital IT administrators and OEM partners through compliance with healthcare interoperability standards.
-  Positioned XYZ AI's product as a secure, scalable, and vendor-neutral solution for global healthcare institutions.



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