

Radiology AI

The Human-in-the-Loop
Radiology Copilot

AI-assisted image analysis, structured reporting, multi-scan synthesis and clearer communication — with the radiologist always in control.



Project Overview

Radiology AI connects imaging review, structured reporting, multi-scan synthesis, urgency cueing, and patient-friendly explanation in one workflow — positioned as a clinical decision- support layer around the radiologist, not a replacement for one.

PRODUCT OBJECTIVE

Reduce reporting work, preserve clinician authority, improve urgency visibility, and simplify the communication of professionally reviewed radiology findings through one unified workspace.

WHO IT SERVES

- Radiologists & clinicians
- Medical trainees needing guided explanations
- Patients — only under professional guidance



Emergency Chest X-Ray / Multi-Study Review

A radiologist receives a chest X-ray with a recent comparison study and clinical context. Radiology AI analyses the selected images, generates structured findings, synthesises the available studies, surfaces potential urgency cues, and produces a draft report and patient-friendly explanation.

Where the Current Workflow Creates Friction

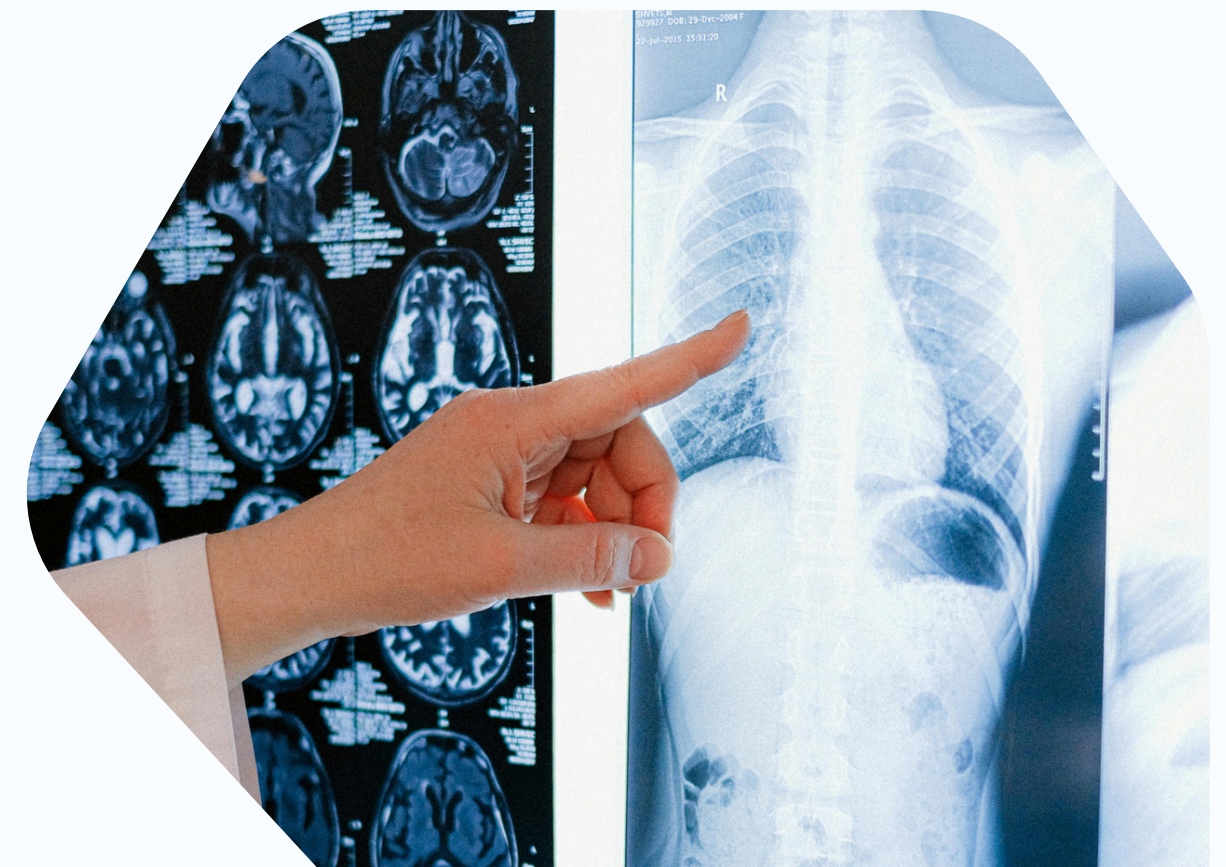
- Manual image inspection across one or more studies
- Drafting findings and impressions from a blank page
- Comparing current and prior studies separately
- Determining and documenting potential urgency
- Creating a clear handoff for clinicians or patients
- Repeating explanation & documentation across cases

Business and Clinical Impact

- Radiologist time is consumed by repetitive drafting and synthesis.
- Departments face reporting backlog and turnaround-time pressure.
- Multi-study comparison can require additional cognitive and documentation effort.
- Patients and referring clinicians may receive information through fragmented communication steps.

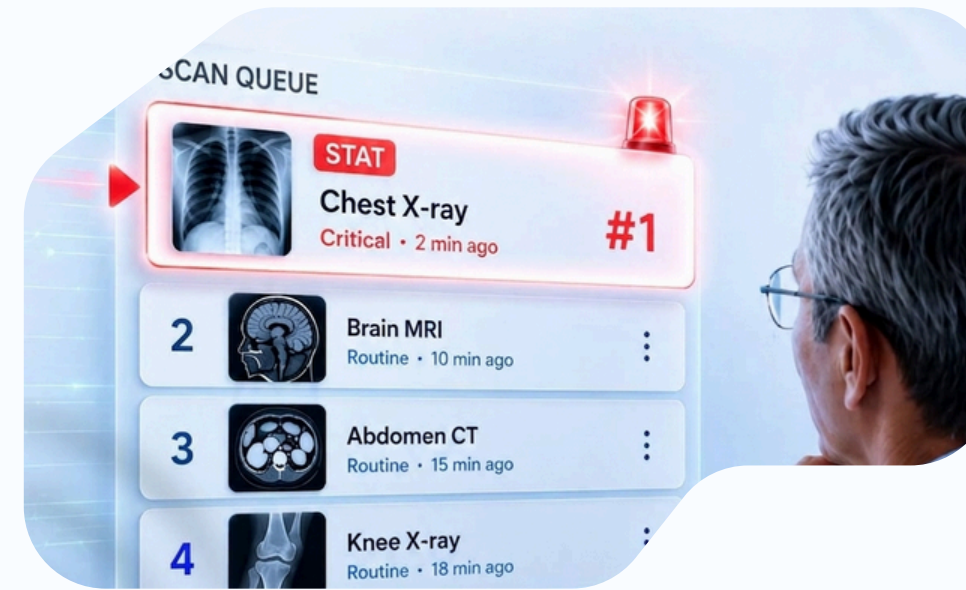
The Problem

The core problem is not access to medical images — it is the effort required to turn imaging evidence into a usable, auditable report and communicate the result efficiently, under time pressure.



Core Solution Components

- Multi-scan ingestion: accepts several images and detects composite scan grids when needed.
- AI-assisted image analysis: highlights potential abnormalities and generates structured findings for clinician review.
- Structured reporting: produces observations, findings, impression, differential, tests, urgency, and patient-summary fields.
- Abnormality localisation: provides a normalised bounding box and abnormality category where supported.
- Combined assessment: synthesises individual reports into an integrated narrative and urgent-concern view.
- Chat and voice refinement: allows follow-up questions and report-section refinement by text or voice.
- Patient-friendly explanation: converts reviewed findings into clearer language after professional review.
- Spatial view and export: provides a probabilistic 3D-style explanation and formatted PDF/chat output.



The Solution

Radiology AI provides an assisted workflow in which AI performs structured analysis and drafting while the radiologist remains responsible for reviewing source evidence, correcting the output, and approving the final report.

Standard Workflow Vs. The Radiology AI Copilot



Standard Radiology

- Image review, report drafting, comparison, communication, and export can be separate activities.
- Report writing often starts from a blank page.
- Multi-scan synthesis may require manual comparison.
- Patient/referrer explanation may be created separately.
- The final workflow can involve multiple transitions and sources of rework.

Radiology AI Copilot

- One review surface connects image analysis, findings, report drafting, synthesis, explanation, and export.
- AI-generated structure reduces blank-page authoring.
- Selected studies can be combined into a contextual assessment.
- Potential urgency cues are surfaced for professional review.
- Text and voice can be used to refine report sections.
- The clinician remains the explicit final decision-maker.

What Makes It Different

Key Benefits & Business Impact

Operational Benefits

- Potential reduction in report drafting time through structured first drafts.
- Potential reduction in turnaround time through assisted review and synthesis.
- Reduced repetitive work for radiologists.
- Improved handling of multi-scan context.
- Streamlined review, refinement, and export.



Clinical Workflow Benefits

- Potential urgency cues support prioritisation review.
- Structured output creates a consistent review format.
- Human-in-the-loop review preserves clinical authority.
- Patient-friendly explanations can improve communication after professional review.

Pricing & Feature Comparison

The uploaded source materials do not provide an approved commercial price list. Therefore, pricing below is presented as a proposed packaging framework rather than a claimed current price

Pilot / Evaluation

Prove value before scaling

AI-assisted image analysis	✓
Structured report drafts	✓
Multi-scan synthesis	✓
Urgency cues	✓
Patient-friendly summaries	✓
Voice/text refinement	Optional
PDF/report export	✓
Audit & governance	Pilot validation
Integration readiness	Validation
Dedicated support / SLA	Optional

Team / Department

Scale within a department

AI-assisted image analysis	✓
Structured report drafts	✓
Multi-scan synthesis	✓
Urgency cues	✓
Patient-friendly summaries	✓
Voice/text refinement	✓
PDF/report export	✓
Audit & governance	Enhanced
Integration readiness	Department
Dedicated support / SLA	Optional

Enterprise / Health System

Full-scale deployment

AI-assisted image analysis	✓
Structured report drafts	✓
Multi-scan synthesis	✓
Urgency cues	✓
Patient-friendly summaries	✓
Voice/text refinement	✓
PDF/report export	✓
Audit & governance	Enterprise
Integration readiness	RIS/PACS/DICOM
Dedicated support / SLA	✓

Markets and markets

\$1.65B

(2024)



\$4.54B

(2029)

Grand View Research

\$1.8B

(2026)



\$20.2B

(2033)

The project documentation frames AI in radiology as a growing market with a focused product wedge around reporting and review assistance for hospital and outpatient radiology teams. Published market estimates vary because the sources use different category definitions.



Focused Product Wedge

AI-assisted radiology review and reporting: helping hospital and outpatient radiology teams reduce reporting friction while maintaining clinician control. The strongest commercial proof comes from RIS/PACS workflow measures, not model breadth alone.

Target Buyers

Hospital radiology departments

Outpatient imaging centres

Radiology service lines

Healthcare orgs seeking workflow automation

Clinical technology & digital-health teams

Market Opportunity





Thank You

We appreciate your time and interest in Adople AI. We are committed to empowering your enterprise with intelligent solutions.



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