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Leading radiology providers in India embrace AI technology: Understanding the Shift

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AI-assisted radiology is set to play an increasingly vital role in improving diagnostic accuracy



India reads the highest number of radiology studies every year than any other country. To manage this volume while also enhancing diagnostic accuracy, an enterprise-grade AI that is capable of operating reliably in diverse clinical environments is becoming the go-to for leading operators.

ICUs and emergency departments, suburban diagnostic centers and even remote clinics in tier 2/3 cities, connected via tele-radiology networks, are addressing the scale challenge by turning to AI solutions. India's AI-assisted radiology market valued at approximately \$65 million, is projected to surge to \$1.4 billion by 2035.

It would come as no surprise that major radiology providers including Apollo Radiology International (ARI), Manipal Hospitals and Aarthi Scans have integrated AI into their workflows.

Diverse settings, Unified benefits

The adoption of AI spans a wide spectrum of care settings, each with unique clinical demands. Three leading operators illustrate how the same Australian AI has enabled consistent, high-quality radiology services across a varied healthcare landscape:

- **Apollo Radiology International (ARI):** ARI is a global leader in teleradiology, offering 24/7 subspecialty radiology reporting by 200+ radiologists across 32 countries. Reporting over 2 million scans annually and serving 200 healthcare organisations globally, ARI relies on AI to help prioritize critical cases such as abnormalities on chest X-rays and CT brain scans. Backed by technology, urgent findings reported in one country could reach the other end of the globe as seamlessly and swiftly as it would in the same hospital! Dr Sreenivasa Raju Kalidindi, ARI's Global CEO & Medical Director, notes, *"By adopting Harrison.ai's proven solutions for CXR and CT Brain scans, we have enhanced our ability to triage critical cases faster and support our radiologists with deeper insights."*
- **Manipal Hospitals:** With 49 hospitals across 24 cities serving nearly 8 million patients annually, Manipal Hospitals' chest X-rays account for more than half its imaging workload. At scale, the risk is less about catastrophic errors and more about missing subtle findings during long shifts. Harrison.ai solution detects up to 124 findings, thus augmenting rather than replacing clinical judgement. Dr Sudarshan Rawat, Head of Department at Manipal Hospitals, explains, *"Harrison's AI-assisted reporting functions as a second reader, making sure even the most subtle findings are not missed, while helping us deliver timely reports to patients."*
- **Aarthi Scans & Labs:** Serving over 7,000 patients every day across a vast outpatient imaging network that includes Tier 2 and Tier 3 cities, Aarthi Scans faces challenges common to smaller centers without the infrastructure of large metropolitan hospitals. An Australian CT Brain solution helps standardize care quality by prioritizing critical cases such as stroke indicators, acute hemorrhage, and obstructive hydrocephalus enabling quicker intervention by radiologists regardless of the scan's location. Dr Arunkumar Govindarajan of Aarthi Scans & Labs shares, *"Harrison's AI-powered solution not only accelerates the diagnostic process but also enhances the accuracy and efficiency of our reporting, ultimately leading to better patient outcomes."*

Effective AI adoption in India

While we have seen the advantages cited by three leading radiologists, the following factors underpin the success of AI:

- **Comprehensive diagnostic coverage:** AI tools need to be backed by technology that is capable of detecting a broad range of radiological findings across multiple imaging modalities, thus avoiding any gaps in clinical detection.
- **Seamless workflow integration:** AI must integrate smoothly with existing Picture Archiving and Communication Systems (PACS), Radiology Information Systems (RIS), and reporting platforms to avoid disrupting clinical workflows. This is a critical requirement in India's busy healthcare settings.
- **Proven operational reliability:** AI solutions must demonstrate dependable performance at scale backed by clinical validation. By and large AI solutions with a global track record with local regulatory standing gain trust among clinicians and administrators.

The road ahead

For the Indian radiology market, AI is no longer an optional future innovation but a necessary tool for managing today's imaging workloads effectively. The focus has shifted to selecting AI partners with the clinical expertise, technological breadth and operational reliability to support diverse and high-volume radiology practices.

As India's healthcare system continues to grow, AI-assisted radiology is set to play an increasingly vital role in improving diagnostic accuracy, enhancing workflow efficiency, and ultimately supporting better patient care across the country's wide-ranging healthcare environments.

Teodor Stoev, Regional Director Asia, Harrison.ai (Formerly known as Annalise.ai)