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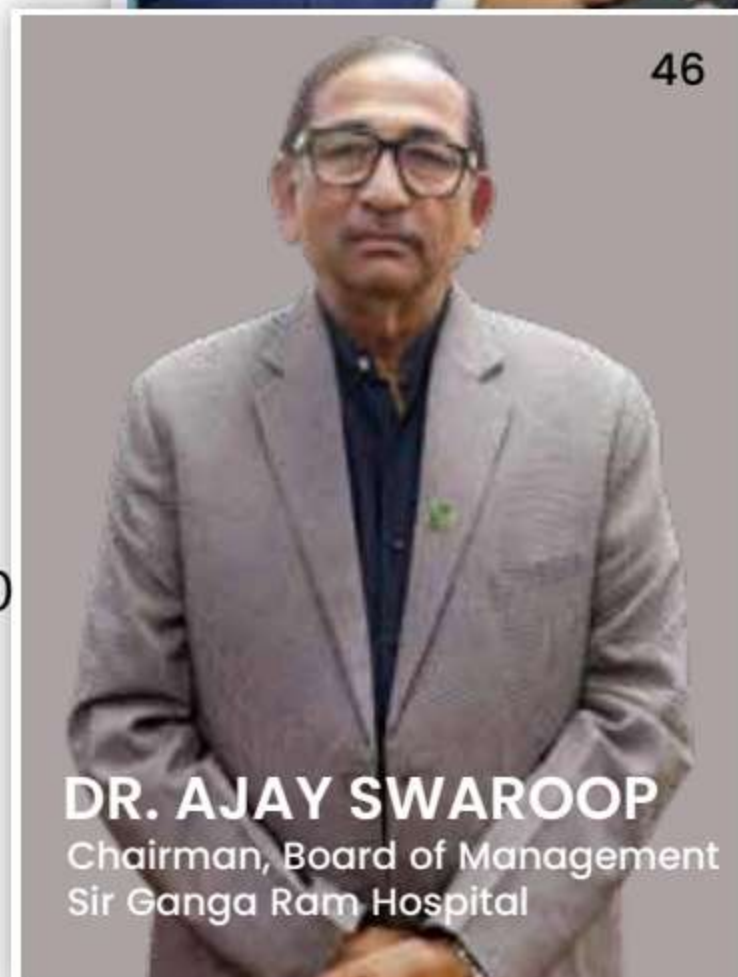
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# AI IN MAGNETIC RESONANCE IMAGING: FROM RESEARCH ALGORITHMS TO INTELLIGENT IMAGING

**A**rtificial intelligence (AI) is transforming magnetic resonance imaging (MRI), helping make examinations faster, more reliable, and increasingly quantitative. As healthcare moves toward precision medicine, MRI is expected not only to detect disease but also to measure subtle tissue changes, monitor treatment response, and provide objective biomarkers of tissue health. AI is emerging as a key technology to meet these growing clinical demands while improving workflow efficiency and patient comfort.

The foundations of AI in MRI were established in the late 1980s and 1990s, when neural networks were first applied to tissue classification and image segmentation. Limited computing power and small datasets restricted their clinical impact, but these early studies demonstrated that MRI contains complex patterns that computers can learn to recognize.

The advent of deep learning has dramatically expanded AI's capabilities. Modern AI algorithms can reconstruct high-quality images from accelerated or incomplete acquisitions, reduce image noise and motion artefacts, enhance signal-to-noise ratio, and support automated quality



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assessment. AI is also making quantitative MRI more practical by improving measurements of tissue properties such as T1, T2, diffusion, perfusion, metabolism, and fat fraction, enabling imaging biomarkers that support earlier diagnosis and more precise disease monitoring.

Commercial adoption of AI-integrated MRI accelerated around 2019, with deep learning-based image reconstruction technologies becoming part of routine clinical imaging. These advances have shifted AI from research laboratories into everyday radiology practice.

This technological evolution is reflected in the imaging platforms developed by Sequoia Healthcare Limited. The company's Clarity 1.5T MRI incorporates Magic Skyray Intelligent Reconstruction (MSIR), which combines compressed sensing with deep learning to accelerate image acquisition while maintaining high image quality, improving signal-to-noise ratio, enhancing spatial resolution, and reducing metal-related artefacts. Sequoia's Inspiration 64-slice CT similarly integrates deep learning-based reconstruction and intelligent diagnostic tools to produce clearer and more consistent clinical images.

The benefits extend beyond improved image appearance. Faster examinations improve patient comfort, particularly for children, elderly patients, and individuals

unable to remain still for prolonged periods. Reduced motion artefacts decrease repeat scans, improve diagnostic confidence, and increase scanner productivity, ultimately enhancing access to advanced imaging services.

Looking ahead, AI is expected to evolve beyond image reconstruction toward quantitative analysis of tissue physiology and metabolism. My doctoral research focuses on physics-guided deep learning methods for quantifying phosphocreatine and creatine chemical exchange saturation transfer (CEST) MRI in skeletal muscle, with the goal of developing sensitive biomarkers for disorders such as **Amyotrophic lateral sclerosis**. While these approaches remain in the research domain, they illustrate the future direction of intelligent MRI.

The future of AI in MRI will depend not only on increasingly sophisticated algorithms but also on rigorous clinical validation and close integration with imaging science. By combining advances in artificial intelligence with established MRI physics, the next generation of imaging systems will provide faster, more accurate, and more quantitative information, supporting earlier diagnosis, personalized treatment, and better patient outcomes.



**Modern AI algorithms can reconstruct high-quality images from accelerated or incomplete acquisitions, reduce image noise and motion artefacts, enhance signal-to-noise ratio, and support automated quality assessment.**