

Automating Clinical Guideline Creation with AI for a Leading US Academic Medical Centre

Overview

Stanford Hospitals, USA, is a leading academic medical centre and research hospital system in the healthcare industry. Nationally recognised for clinical innovation, medical education, and pioneering treatment programmes that advance patient care.

Business Challenge

Developing and maintaining clinical guidelines from extensive research data was a largely manual and time-intensive undertaking for the hospital system. As treatment protocols evolved, keeping guidelines current became increasingly difficult to sustain through manual review alone.

- Guideline creation and updates from research data relied heavily on manual effort
- Frequent emergence of new protocols made timely updates challenging
- Content required adaptation for local contexts before consistent use
- Converting materials into EHR-compatible formats added further manual work

The Solution

To address these challenges, an AI-driven solution was implemented to automate the creation and digitisation of clinical guidelines directly from underlying research data. The solution was designed to streamline contextual adaptation for local requirements and support downstream integration with electronic health record systems.

- Automates the end-to-end creation and digitisation of clinical guidelines directly from research data
- Adapts guideline content to suit local contextual requirements
- Converts guideline materials into formats suited for EHR integration

Impact Delivered

The solution delivered substantial efficiency gains across the guideline lifecycle, cutting the time required to create and update clinical guidelines. It also enabled the hospital system to respond faster to emerging protocols while improving the overall consistency and quality of guideline content delivered to clinicians.

- 80%+ reduction in the time taken to create clinical guidelines
- Faster turnaround updates for emerging protocols
- Improved consistency and quality of guideline content

Technology Stack

- Generative AI / Large Language Models
- Natural Language Processing (NLP)
- EHR integration framework

Services Delivered

- AI-driven clinical guideline automation
- Content localisation and contextual adaptation
- Guideline-to-EHR format conversion and integration support

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