Category

Data & AI

AI in Healthcare & Life Sciences Playbook (Use Cases, Ethics)

Deploying AI where the stakes are patient outcomes, not just operational efficiency

- Executive
- Advanced
- Template Included

- Administrator
- 29 September 2021
- 4 minute(s)

Overview

A framework for AI adoption in healthcare and life sciences organizations — clinical decision support, drug discovery acceleration, and operational efficiency use cases — that navigates the sector's elevated ethical and regulatory stakes, building patient safety and equity considerations into AI deployment from the outset.

How does AI adoption in healthcare differ from AI adoption in

other regulated industries? Healthcare AI carries directly elevated patient safety stakes beyond typical regulatory compliance concerns — an AI error in a clinical context can directly harm patients, requiring a level of validation, human oversight, and equity

consideration beyond what most other regulated industries' AI applications require.

Where should healthcare organizations prioritize AI investment

given these elevated stakes? Starting with lower-stakes operational and administrative use cases (scheduling, documentation support) builds organizational AI capability and trust before progressing to higher-stakes clinical decision support applications, which warrant substantially more validation.

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