



Transforming Healthcare Operations Through Enterprise AI

A large multi-site healthcare organization partnered with TRC to move beyond AI experimentation and implement enterprise AI solutions that delivered measurable business outcomes. By embedding AI directly into financial, operational, and clinical workflows, the organization improved efficiency, accelerated decision-making, reduced administrative burden, and enhanced the experience for both employees and patients.

The Challenge

Like many healthcare organizations, the client recognized AI's potential but needed a practical strategy for applying it across the business. Rather than deploying isolated AI tools, they wanted solutions that would improve core business operations while maintaining governance, security, and compliance.

Key challenges included:

- Time-consuming month-end financial close processes that delayed reporting and executive visibility
- Manual revenue cycle workflows that slowed reimbursements and increased operational costs
- Administrative documentation requirements that reduced time clinicians could spend with patients
- The need to implement AI responsibly with enterprise governance and oversight
- Delivering measurable ROI instead of isolated technology pilots



Our Solution

TRC assembled a multidisciplinary team of AI specialists, data engineers, solution architects, forward deployed engineers, and AI governance experts to design and implement enterprise AI solutions across multiple business functions.

Rather than introducing standalone AI tools, the engagement focused on integrating AI into existing workflows to improve efficiency while keeping people at the center of every decision.



Enterprise AI Infrastructure

A secure AI foundation was established to integrate structured and unstructured data across the organization while supporting responsible AI governance, auditing, and compliance.



AI-Driven Financial Operations

TRC implemented intelligent workflow automation to streamline month-end close activities through automated reconciliations, exception identification, financial narrative generation, and coordinated workflows across finance teams.



Revenue Cycle Optimization

AI-assisted automation reduced manual reviews, prioritized work queues, identified reimbursement risks, and provided actionable recommendations to improve revenue cycle performance and operational efficiency.



Clinical Documentation Support

AI-generated clinical summaries and documentation assistance reduced administrative work for clinicians while maintaining human review and validation throughout the process.

The Results

By integrating AI into core business operations, the organization achieved measurable improvements across finance, revenue cycle management, and clinical workflows. Month-end financial close was accelerated by one full day, generating an estimated \$1 million+ in annual business value through productivity gains and faster reporting. Revenue cycle processes became more efficient, clinicians spent less time on documentation, and enterprise AI governance provided a secure foundation for continued innovation.

Key Takeaways

This engagement shows that AI creates the most value when it's integrated into business workflows, not deployed as a standalone tool. By combining strategy, engineering, and governance, the organization turned AI investment into measurable business transformation.