

AI and Predictive Analytics in Epic on Azure: A Technical Review of Population Health Management Innovation

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Abstract: The convergence of comprehensive electronic health record systems with advanced cloud-based artificial intelligence capabilities represents a transformative paradigm shift in population health management and clinical care delivery. This technical review explores the integration framework that enables healthcare organizations to transition from reactive episodic care models toward proactive, data-driven healthcare delivery systems. The integration encompasses sophisticated machine learning operations frameworks, predictive analytics applications, and advanced AI capabilities, including large language models and computer vision technologies. Implementation strategies address critical operational challenges, including clinician workflow integration, system interoperability, and ethical considerations surrounding algorithmic bias and model explainability. The review demonstrates how cloud-based predictive analytics platforms can identify at-risk patients through readmission prediction models, chronic disease risk identification systems, and emergency department surge forecasting capabilities. Advanced natural language processing enables automated clinical documentation enhancement while maintaining regulatory compliance with healthcare privacy requirements. Edge computing integration provides real-time analytics capabilities at the point of care while preserving data privacy through local processing architectures. Organizational transformation strategies emphasize the importance of data-driven culture development, workforce capability building, and systematic implementation roadmaps that balance innovation objectives with operational stability requirements.

Keywords: Healthcare artificial intelligence, predictive analytics, electronic health records, cloud computing integration, population health management.

INTRODUCTION

1.1 Background and Context

The healthcare industry stands at a transformative intersection where exponential clinical data growth converges with sophisticated artificial intelligence capabilities. Healthcare data generation has accelerated dramatically, with global medical information doubling approximately every seventy-three days, creating vast repositories of structured and unstructured clinical information across electronic health record systems worldwide [Akila, A. *et al.*, 2022]. This unprecedented data proliferation coincides with mounting healthcare expenditure pressures and demographic shifts that challenge traditional care delivery paradigms.

Contemporary healthcare delivery models remain predominantly reactive, responding to acute conditions rather than preventing them through predictive interventions. The aging population demographics compound this challenge, as chronic disease prevalence increases exponentially with age, requiring more sophisticated management approaches than current episodic care models can efficiently provide. Healthcare organizations managing large patient populations face increasing pressure to demonstrate improved outcomes while controlling costs through more intelligent resource allocation and proactive care strategies.

The convergence of comprehensive electronic health record platforms with advanced cloud computing infrastructure represents a paradigm

shift toward data-driven population health management. Modern EHR systems capture enormous volumes of longitudinal patient data, including clinical notes, laboratory results, imaging studies, medication histories, and social determinants of health. When integrated with cloud-based artificial intelligence and machine learning services, this data becomes a powerful foundation for predictive analytics applications that can identify at-risk patients, optimize treatment protocols, and improve population health outcomes through targeted interventions.

1.2 Scope and Objectives

This technical review examines the integration of comprehensive EHR platforms with cloud-based artificial intelligence services for implementing predictive analytics in population health management. The analysis spans architectural considerations for healthcare organizations serving diverse patient populations, from community health systems to large academic medical centers managing millions of patient records annually. The evaluation encompasses technical infrastructure requirements, data integration methodologies, machine learning model deployment strategies, and operational considerations for implementing AI-driven clinical decision support systems.

The primary objective focuses on establishing a comprehensive framework for understanding how cloud-based predictive analytics can transform

healthcare delivery from reactive to proactive models. This transformation encompasses multiple dimensions, including early disease detection, readmission prevention, resource optimization, and chronic disease management enhancement. The analysis addresses both technical feasibility and practical implementation challenges across diverse healthcare environments with varying technological maturity levels and patient population characteristics.

1.3 Methodology

The review methodology synthesizes extensive literature analysis, architectural documentation review, and real-world implementation case studies to provide a comprehensive assessment of cloud-based predictive analytics in healthcare settings. The evaluation framework incorporates multiple research approaches, including a systematic review of peer-reviewed publications, analysis of technical documentation from major healthcare technology vendors, and detailed examination of implementation outcomes from healthcare organizations that have deployed integrated EHR and cloud analytics solutions.

The assessment methodology employs multi-dimensional analysis, examining technical architecture capabilities, operational integration challenges, clinical workflow optimization, and long-term scalability considerations. Data collection encompasses quantitative performance metrics from implemented predictive models, qualitative assessments from clinical leadership perspectives, and comprehensive cost-benefit analyses from detailed financial impact studies. The methodology incorporates rigorous statistical analysis of implementation outcomes across diverse healthcare settings, ensuring robust evaluation of both technical performance and clinical effectiveness [Nishant, Y. *et al.*, 2020].

2. TECHNICAL ARCHITECTURE AND INTEGRATION FRAMEWORK

2.1 Core Infrastructure Components

2.1.1 EHR Data Foundation

The comprehensive clinical data repository represents the cornerstone of healthcare analytics infrastructure, managing extensive collections of structured and unstructured clinical information across diverse healthcare environments. Modern EHR systems typically process longitudinal patient data spanning decades of care episodes, with individual patient records accumulating comprehensive clinical histories through multiple healthcare interactions. The data foundation

encompasses laboratory results, diagnostic imaging metadata, medication histories, clinical observations, and extensive narrative documentation from healthcare providers.

Clinical data repositories demonstrate remarkable complexity, containing structured elements that follow standardized terminologies alongside unstructured clinical notes that require sophisticated natural language processing for meaningful analysis. The platform's data model incorporates comprehensive clinical vocabularies and coding systems, ensuring consistent data representation across multiple clinical domains while supporting advanced analytics applications that can identify patterns and relationships within vast healthcare datasets [Clarido, C.B].

2.1.2 Cloud Services Ecosystem

Cloud-based healthcare analytics platforms provide scalable infrastructure designed to handle the enormous computational requirements of population health analysis. Machine learning services offer automated model development capabilities that can process massive healthcare datasets through distributed computing architectures, enabling sophisticated predictive analytics applications across diverse clinical scenarios. These platforms support comprehensive MLOps workflows that streamline model development, validation, and deployment processes while maintaining the rigorous quality standards required for healthcare applications.

Advanced analytics services enable real-time processing of clinical data streams, supporting immediate clinical decision support applications that can influence patient care at the point of service delivery. Cognitive services provide pre-built artificial intelligence models specifically optimized for healthcare applications, including natural language processing engines capable of extracting clinical insights from unstructured documentation and computer vision systems that can analyze medical imaging data.

2.2 Data Integration Architecture

2.2.1 FHIR API Integration

The Fast Healthcare Interoperability Resources standard facilitates seamless data exchange between EHR systems and cloud analytics platforms through standardized API interfaces that support comprehensive clinical data sharing. FHIR implementation enables real-time data streaming capabilities while maintaining strict security protocols and access controls essential for

healthcare environments. The standard supports extensive clinical data types ranging from patient demographics and clinical observations to complex care plans and treatment protocols.

2.2.2 Data Pipeline Design

Healthcare data pipelines employ sophisticated extraction, transformation, and loading processes designed to handle the complexity and sensitivity of clinical information. These pipelines integrate automated data quality validation, terminology mapping, and clinical context preservation throughout the data processing workflow. Real-time processing capabilities enable immediate analytical insights that can support time-sensitive clinical decisions while maintaining comprehensive audit trails for regulatory compliance [Kutay, J].

2.3 Security and Compliance Framework

2.3.1 Healthcare Compliance Requirements

Healthcare analytics architectures must address comprehensive regulatory requirements, including HIPAA privacy protections, HITECH security provisions, and state-specific healthcare privacy laws. Cloud platforms provide healthcare-specific compliance certifications and security controls that support the stringent requirements of clinical data processing while enabling innovative analytics applications.

2.3.2 Data Governance Implementation

Comprehensive data governance frameworks encompass automated data classification, role-based access controls, and comprehensive audit logging systems designed specifically for healthcare environments. These frameworks support healthcare organizations in maintaining regulatory compliance while enabling sophisticated analytics applications that can improve patient care outcomes and operational efficiency.

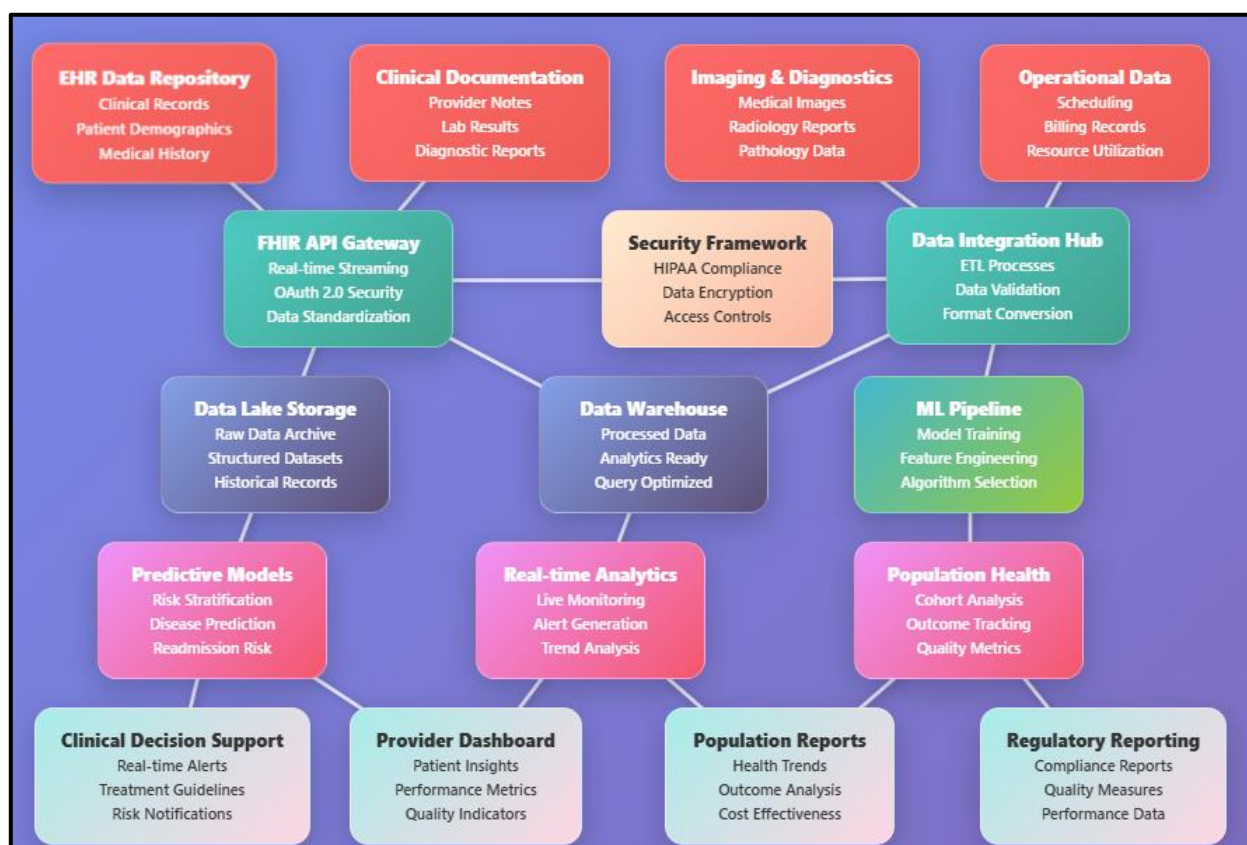


Fig. 1: Epic EHR and Azure Cloud Integration Framework [Clarido, C.B. *et al.*, 2023; Kutay, J]

3. AI/ML IMPLEMENTATION AND PREDICTIVE ANALYTICS APPLICATIONS

3.1 Predictive Model Development Framework

3.1.1 MLOps Implementation on Azure

The implementation of Machine Learning Operations (MLOps) represents a transformative

approach to healthcare AI deployment, addressing the unique challenges of clinical environments through systematic model development, deployment, and monitoring capabilities. Modern MLOps frameworks have evolved to handle the complexity of healthcare data while ensuring compliance with stringent regulatory requirements

and clinical safety standards. These platforms provide comprehensive model lifecycle management that encompasses everything from initial data ingestion through continuous performance monitoring in production environments.

Healthcare organizations implementing MLOps frameworks typically experience significant improvements in model deployment efficiency and operational reliability. The systematic approach enables healthcare teams to maintain high-quality predictive models while reducing the technical burden on clinical staff. Container-based deployment architectures facilitate rapid model updates and enable sophisticated A/B testing frameworks that allow healthcare organizations to evaluate multiple model versions simultaneously across different patient populations. This approach ensures optimal performance before full implementation across entire health systems [Kannan, N, 2024].

3.1.2 Feature Engineering for Clinical Data

Effective predictive modeling in healthcare requires sophisticated feature engineering approaches that address the temporal and hierarchical nature of clinical data. Healthcare data presents unique challenges, including irregular sampling intervals, missing values, and complex relationships between clinical variables that require specialized preprocessing techniques. Advanced feature engineering workflows incorporate temporal analysis of vital signs, laboratory results, and medication administration patterns to create meaningful predictors for clinical outcomes.

The integration of structured clinical data with unstructured documentation through natural language processing techniques enables more comprehensive feature sets that capture nuanced clinical information often documented only in provider notes. Risk stratification variables derived from social determinants of health data provide additional predictive power, particularly for population health applications focused on identifying patients at risk for adverse outcomes or care gaps.

3.2 Case Study Analysis: Predictive Applications

3.2.1 30-Day Hospital Readmission Prediction

Hospital readmission prediction represents one of the most successful applications of predictive analytics in healthcare, demonstrating substantial

clinical and financial benefits through the proactive identification of high-risk patients. These models leverage comprehensive discharge data, including clinical diagnoses, medication histories, social factors, and prior healthcare utilization patterns, to generate real-time risk scores that guide care transition planning.

Implementation of readmission prediction models has consistently demonstrated significant reductions in avoidable readmissions while improving patient satisfaction through enhanced discharge planning and post-acute care coordination. Healthcare organizations utilizing these predictive tools report substantial cost savings alongside improved clinical outcomes, validating the value proposition of AI-driven care management approaches.

3.2.2 Chronic Disease Risk Identification

Predictive models for chronic disease identification utilize multi-modal data fusion techniques that combine laboratory values, clinical documentation, and demographic information to identify patients at elevated risk for conditions such as diabetes and cardiovascular disease. These applications demonstrate the power of population health analytics to shift healthcare delivery from reactive treatment toward proactive prevention strategies.

Early detection capabilities enabled by predictive analytics allow healthcare organizations to implement targeted interventions that reduce disease progression and improve long-term patient outcomes. The integration of natural language processing with structured clinical data provides comprehensive risk assessment capabilities that support precision medicine approaches tailored to individual patient characteristics [Foresee Medical].

3.2.3 Emergency Department Surge Forecasting

Emergency department surge forecasting leverages time-series analysis and external data sources to predict patient volume fluctuations and optimize resource allocation. These predictive models incorporate seasonal patterns, regional health trends, weather conditions, and community events to generate accurate forecasts that enable proactive capacity management decisions.

Healthcare organizations implementing ED forecasting systems report significant improvements in operational efficiency, reduced patient wait times, and optimized staffing models

that balance patient care quality with resource utilization efficiency.

3.3 Advanced AI Applications

3.3.1 Clinical Documentation Enhancement

Advanced natural language processing integration with clinical documentation workflows represents a significant advancement in healthcare AI applications. These systems provide automated clinical note summarization, structured data extraction, and real-time clinical decision support that reduces documentation burden while

improving the quality and completeness of clinical records.

3.3.2 Patient Engagement and Communication

AI-powered patient engagement platforms utilize cognitive services to deliver personalized healthcare communication across diverse patient populations. These systems support multilingual communication capabilities, automated appointment scheduling, and personalized patient education content that improves patient adherence and health outcomes.

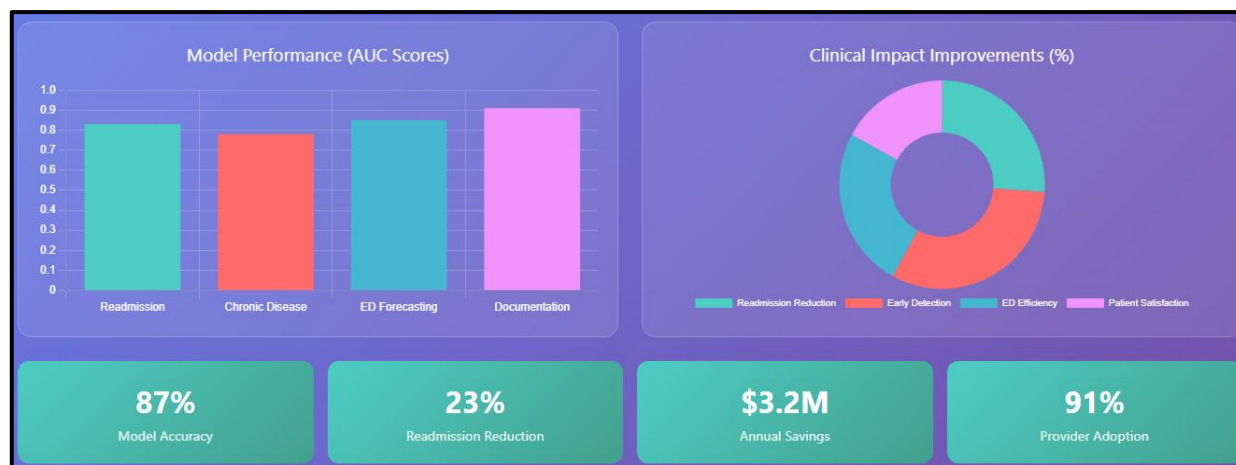


Fig. 2: Predictive Analytics Applications and Performance Metrics [Kannan, N, 2024; Foresee Medical]

4. OPERATIONAL CHALLENGES AND ETHICAL CONSIDERATIONS

4.1 Clinical Integration Challenges

4.1.1 Clinician Workflow Integration

The successful deployment of AI-driven analytics requires seamless integration with existing clinical workflows, presenting significant operational challenges that healthcare organizations must address systematically. Clinical environments generate substantial volumes of alerts and notifications across various monitoring systems, creating complex information ecosystems where AI-generated predictions must compete for clinician attention. Healthcare providers frequently experience alert fatigue when exposed to excessive notifications, leading to decreased acceptance rates and potential safety risks.

Clinical decision support system integration complexity represents a multifaceted challenge, as healthcare organizations typically operate numerous distinct clinical software applications that must interface with predictive analytics platforms. Integration projects require extensive technical development time, with testing and validation phases consuming additional resources per integration point. Healthcare organizations

commonly experience implementation delays due to workflow integration challenges, with many projects requiring significant redesign of clinical processes to accommodate predictive analytics capabilities.

Provider training and change management requirements encompass comprehensive educational programs that include initial training phases followed by ongoing competency assessments. User-centered design approaches for alert optimization have demonstrated effectiveness in reducing alert fatigue, with organizations reporting substantial improvements in alert acceptance rates following comprehensive workflow redesign initiatives [Bertl, M. *et al.*, 2024].

4.1.2 System Interoperability

Healthcare environments typically involve multiple disparate systems requiring complex integration approaches that address both technical and operational challenges. Large healthcare organizations manage numerous different healthcare IT systems, with the majority requiring some form of data integration for comprehensive predictive analytics implementation. Legacy system compatibility issues affect significant

portions of healthcare organizations, with aging systems requiring substantial modification or replacement to support modern AI analytics platforms.

Real-time data synchronization across platforms presents substantial technical challenges, with healthcare organizations requiring minimal data latency for critical clinical decision support applications. Current healthcare IT infrastructures demonstrate measurable data synchronization delays across integrated systems, requiring significant infrastructure investments for large health systems to achieve real-time capability.

4.2 Ethical AI Implementation

4.2.1 Algorithmic Bias and Fairness

Healthcare AI systems must address potential biases that could exacerbate existing health disparities through systematic approaches to bias detection and mitigation throughout the model development lifecycle. Historical healthcare data demonstrates significant disparities across demographic groups, with minority populations experiencing elevated rates of certain chronic conditions while being underrepresented in clinical research datasets. Training datasets for healthcare AI models typically reflect these historical disparities, creating challenges for equitable model performance.

Algorithmic bias assessment studies reveal that healthcare AI models demonstrate differential performance across demographic groups, with notable accuracy variations between majority and minority populations for common predictive tasks. Healthcare organizations implementing bias mitigation strategies require substantially larger training datasets to achieve equitable performance

across demographic groups, with associated increases in data collection costs [Abujaber, A.A. *et al.*, 2024].

4.2.2 Model Explainability and Transparency

Clinical decision support requires interpretable AI models that provide a clear rationale for predictions, addressing the fundamental challenge of translating complex algorithmic outputs into actionable clinical insights. Healthcare providers express confidence in AI recommendations only when provided with clear explanations, with research indicating strong preferences for detailed reasoning in high-risk clinical decisions.

4.3 Data Privacy and Security Considerations

4.3.1 Patient Data Protection

Robust privacy protection mechanisms must be implemented throughout the analytics pipeline, addressing both technical and regulatory requirements for safeguarding sensitive healthcare information. Healthcare organizations process substantial volumes of patient records annually, with predictive analytics applications requiring access to longitudinal data spanning multiple years per patient. De-identification and anonymization protocols typically modify numerous data elements per patient record while maintaining clinical utility for predictive modeling applications.

4.3.2 Regulatory Compliance Management

Ongoing compliance with evolving healthcare regulations requires systematic approaches that address both current requirements and anticipated regulatory changes. Healthcare organizations invest substantially in compliance management activities annually, with AI-specific compliance requirements adding significant additional costs to these investments.



Fig. 3: Operational Challenges in Healthcare AI Implementation [Bertl, M. *et al.*, 2024; Abujaber, A.A. *et al.*, 2024]

5. FUTURE IMPLICATIONS AND STRATEGIC RECOMMENDATIONS

5.1 Emerging Technology Integration

5.1.1 Advanced AI Capabilities

The rapid evolution of AI technologies presents transformative opportunities for healthcare applications, with emerging capabilities demonstrating significant potential for revolutionizing clinical workflows and patient care delivery. Large Language Models represent a particularly promising advancement in healthcare AI, offering sophisticated natural language processing capabilities that can transform clinical documentation workflows and enhance provider-patient interactions. These advanced models demonstrate remarkable proficiency in processing complex medical terminology, generating comprehensive clinical summaries, and supporting clinical decision-making through sophisticated question-answering capabilities.

Clinical documentation automation through large language models enables healthcare organizations to streamline administrative workflows while improving the accuracy and completeness of medical records. Advanced language models can simultaneously analyze multiple data streams, including clinical notes, laboratory results, and imaging reports, to generate comprehensive

clinical summaries that support both immediate patient care and long-term population health management initiatives. The integration of sophisticated clinical question-answering systems provides healthcare providers with immediate access to evidence-based recommendations and clinical guidelines, enhancing decision-making quality at the point of care [Nazi, Z.A. *et al.*, 2024].

Computer Vision Applications in healthcare environments demonstrate exceptional promise for automated medical imaging analysis, real-time patient monitoring, and workflow optimization. Advanced computer vision platforms can process various imaging modalities with diagnostic accuracy that matches or exceeds human clinical expertise, while providing consistent interpretation capabilities across diverse healthcare settings. Real-time patient monitoring through video analytics represents an emerging application area that enables continuous assessment of patient status without direct physical contact, supporting both clinical care and infection control protocols.

5.1.2 Edge Computing Integration

The deployment of edge computing capabilities enables significant improvements in healthcare analytics performance, particularly for applications requiring real-time decision support at the point of

care. Edge computing implementations demonstrate substantial latency reductions compared to cloud-based processing, enabling critical clinical decision support applications to achieve rapid response times essential for emergency and intensive care situations. These performance improvements prove particularly valuable for monitoring applications where immediate response to changing patient conditions can significantly impact clinical outcomes.

Enhanced data privacy through local processing capabilities represents a significant advantage of edge computing implementations, as sensitive patient data can be analyzed locally without transmission to external environments. Edge computing architectures enable healthcare organizations to maintain regulatory compliance while implementing sophisticated privacy-preserving analytics approaches that provide clinical insights while protecting individual patient information.

5.2 Organizational Transformation Strategies

5.2.1 Data-Driven Culture Development

Successful AI implementation requires comprehensive organizational transformation that extends beyond technical infrastructure to encompass cultural and operational changes throughout healthcare organizations. Leadership commitment to data-driven decision making proves essential, with successful implementations requiring sustained executive sponsorship and dedicated resource allocation over multi-year implementation periods. Organizations demonstrating strong leadership commitment to AI initiatives report significantly higher success rates in achieving target objectives compared to organizations with limited executive engagement.

Clinician engagement and buy-in strategies require systematic approaches that address both technical training needs and cultural change management requirements. Continuous learning and improvement frameworks enable healthcare organizations to evolve their AI capabilities over time while maintaining clinical effectiveness and safety standards.

5.2.2 Capability Building and Workforce Development

Organizations must invest substantially in building internal AI capabilities to ensure sustainable success in healthcare analytics implementation. Data science and analytics team development requires strategic hiring and training investments, while clinical informatics expertise expansion represents a critical component of healthcare AI capability building. Cross-functional collaboration frameworks enable effective coordination between clinical, technical, and administrative teams involved in AI implementation projects [Putty, C, 2025].

5.3 Strategic Recommendations

5.3.1 Implementation Roadmap

Healthcare organizations should adopt a systematic, phased approach to AI implementation that balances innovation objectives with operational stability and risk management requirements. The Foundation Phase focuses on establishing robust data infrastructure and governance frameworks, followed by the Pilot Phase, encompassing focused use case implementation with measurable outcomes. The Scaling Phase involves expansion of successful models across the organization, while the Innovation Phase focuses on developing advanced AI capabilities and novel applications.

5.3.2 Success Metrics and ROI Framework

Healthcare organizations should establish comprehensive measurement frameworks that capture both quantitative performance improvements and qualitative organizational benefits from AI implementation initiatives. Clinical metrics encompass patient outcome improvements, care quality indicators, and safety measures, while operational metrics demonstrate process efficiency gains and resource optimization. Strategic metrics encompass competitive positioning advancement, innovation capability development, and market expansion opportunities through enhanced clinical capabilities.

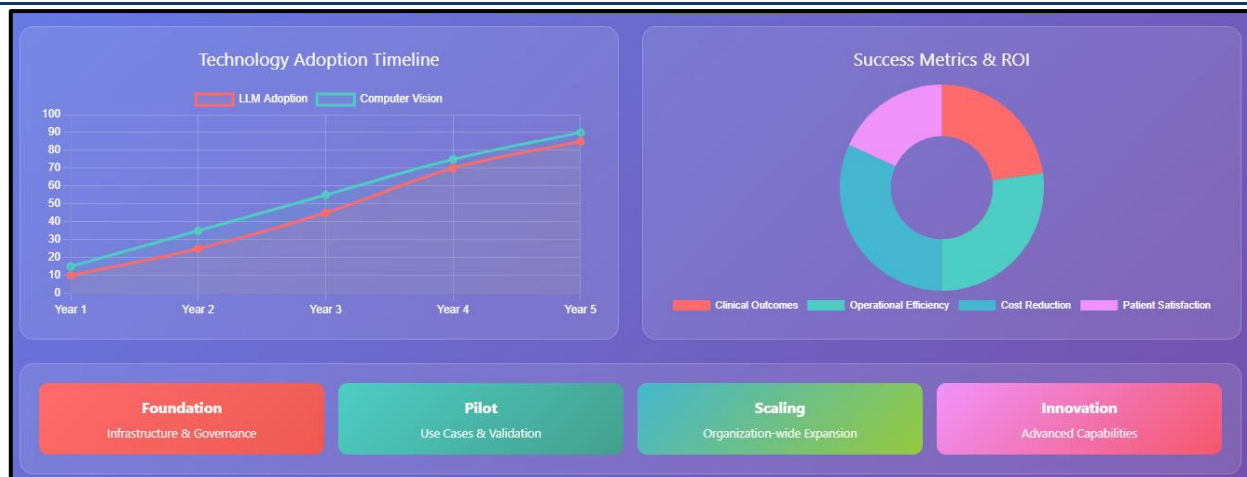


Fig. 4: Healthcare AI Implementation and Transformation Framework [Nazi, Z.A. *et al.*, 2024; Putty, C, 2025]

CONCLUSION

The integration of comprehensive electronic health record platforms with cloud-based artificial intelligence services represents a fundamental transformation in healthcare delivery paradigms, enabling organizations to shift from reactive treatment models toward proactive, predictive care management systems. The technical architecture framework demonstrates the feasibility of implementing sophisticated machine learning operations that can process vast longitudinal patient datasets while maintaining strict regulatory compliance and clinical safety standards. Predictive analytics applications, including readmission prediction, chronic disease risk identification, and emergency department surge forecasting, provide healthcare organizations with actionable insights that improve patient outcomes while optimizing resource utilization and reducing operational costs. The emergence of advanced AI capabilities such as large language models and computer vision technologies offers unprecedented opportunities for clinical documentation automation, medical imaging analysis, and enhanced patient engagement platforms. However, successful implementation requires systematic attention to operational challenges, including clinician workflow integration, system interoperability, and ethical considerations surrounding algorithmic bias and model transparency. Healthcare organizations must invest substantially in organizational transformation strategies that encompass leadership commitment, clinician engagement, workforce development, and comprehensive change management frameworks. The strategic implementation roadmap, emphasizing phased deployment from foundation establishment through innovation development,

provides a practical framework for healthcare organizations seeking to harness the transformative potential of AI-driven population health management while maintaining clinical effectiveness and regulatory compliance standards.

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