



Kodjin Analytics: Turning Healthcare Data into Real-Time Decisions

AI-Powered Data Platform for Healthcare Providers,
Health IT Vendors, and Payers

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A practical overview of how **Kodjin Analytics** helps organizations turn healthcare data into usable answers.

Challenges for Healthcare Organizations

Healthcare organizations generate massive amounts of data, yet struggle to turn it into actionable insights and data-driven decisions.

Across clinical, operational, and financial systems, **healthcare data remains:**

Fragmented:

spread across multiple systems (EHRs, labs, billing, claims, and legacy platforms) with limited interoperability

Complex:

stored in different formats and structures, requiring significant effort to normalize and interpret

Difficult to access:

locked behind technical tools, siloed teams, and manual processes

As a result:



Decisions are delayed:

critical information takes too long to obtain, limiting timely action



Opportunities are missed:

potential improvements in care, efficiency, and revenue remain hidden



Costs increase:

inefficiencies, duplicated efforts, and avoidable events drive up operational and clinical costs

Kodjin Analytics introduces a new approach: **an AI-powered analytics platform that helps healthcare organizations turn complex data into faster, decision-ready insights.**

Instead of relying only on dashboards or technical teams, users can ask questions in natural language and get instant answers through a governed analytics foundation.

This solution brief explores:

- ✓ Why healthcare data remains underutilized
- ✓ Key challenges across providers, vendors, and payers
- ✓ How Kodjin Analytics turns data into decisions
- ✓ Real-world impact and use cases

Facing These Challenges Today?
Let's Discuss Your Analytics Roadmap

[Talk to Our Team](#)

The Healthcare Data Paradox

More Data. Fewer Answers.

Healthcare data is distributed across:

EHR/EMR/HIS systems

Laboratory systems

Pharmacy platforms

Billing and claims systems

Operational and administrative tools

Yet most organizations still struggle to extract value from it. More data has not automatically led to better decisions. When healthcare information is distributed across systems and formats, turning it into reliable answers often **requires integration, normalization, and time-consuming analytical work.**

But bringing data together is only part of the problem. In many organizations, fixed dashboards, manual reporting cycles, and dependence on technical teams still limit exploration. The challenge is no longer access to data alone, but the ability to make it understandable, trustworthy, and usable in real-world workflows.

Four Core Barriers and the Kodjin Analytics Solution

Rethink how analytics work in your organization and eliminate friction that slows timely, well-informed, and cost-effective decision-making.

Current way

Answers arrive too late

When you have a question, it goes to an analyst, waits in a backlog for days or weeks, and by the time you get an answer, the context has already changed.

Kodjin way

On-demand insights

- Ask a question and get an answer in seconds.
- Rely on up-to-date data.
- Get consistent performance, even at the scale of millions of records.

Current way

Exploration is too rigid

You receive static tables, slides, or pre-configured dashboards, but you can't freely explore the data. You end up navigating metrics and filters or waiting hours or even days for an analyst to answer a follow-up question.

Kodjin way

Flexible and effective interaction with data

- You don't need to figure out how and which report to build, just ask your question in natural language.
- Refine the idea through context-aware follow-ups.
- Share insights and explore together with your team.
- Use and switch between interfaces depending on what works best for you at any given moment: conversational UI, visual query builder, or traditional dashboarding.

Current way

Reports are unreliable

The same term is defined differently across departments. Similar concepts are used inconsistently. Reports don't match. As a result, decisions are based on fragmented and sometimes conflicting information.

Kodjin way

Trusted, consistent, and deep insights

- Use plain business and clinical terms: semantic layer turns raw data into concepts everyone can work with.
- Get reliable answers regardless of how a question is phrased: our system understands variations.
- Get a single source of meaningful knowledge.
- Connect clinical, financial, and operational data into one coherent, longitudinal view.

Current way

Process is too complex and costly

Your organization needs a team of skilled business analysts. Every query requires dozens of steps and several data management tools.

Kodjin way

End-to-end business solution

- No dependency on analyst availability.
- Less infrastructure spending. One product instead of multiple fragmented tools.
- Automates up to 90% of routine analytical work.

The Real Cost of Inaccessible Data

Direct Impact

- Missed revenue opportunities
- Inefficient resource allocation
- Limited visibility into performance

Indirect Impact

- Delayed clinical decisions
- Increased readmissions
- Poor patient experience

A New Approach: Conversational Healthcare Analytics

From Reports → To Real-Time Answers

Traditional analytics:

- Requires technical skills
- Depends on predefined dashboards
- Delays decision-making



Kodjin Analytics enables:

- Asking questions in natural language
- Getting faster, context-aware answers
- Exploring data without technical barriers

Explore How **Kodjin Analytics** Solves These Barriers in Practice

[Request a Demo](#)

Technical Overview

Kodjin Analytics uses a layered architecture designed to turn fragmented healthcare data into analytics-ready outputs. Data is ingested from connected source systems through standardized interfaces and APIs, then stored in a way that preserves both the original structure and the history of changes over time.

This creates a **continuous flow from operational systems into the analytics environment**, making it possible to work with current data without relying only on periodic batch updates.

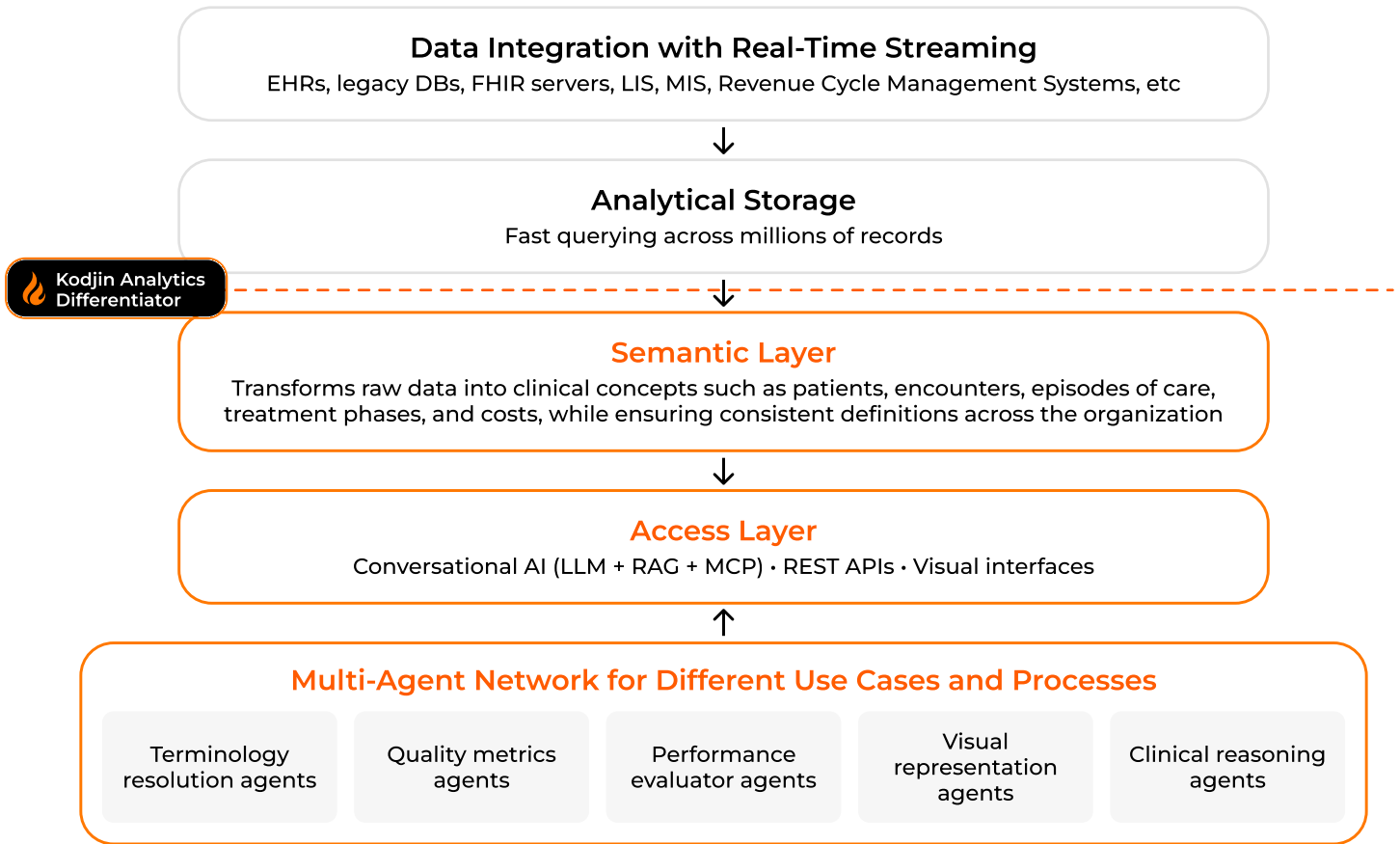
Once ingested, **data is processed and transformed** into structures optimized for analysis across clinical, operational, and financial domains. A **semantic layer** maps raw technical data into consistent business and clinical concepts, so that metrics, cohorts, events, and other analytical objects are defined the same way across teams and use cases.

This helps ensure that different users work from a **shared analytical logic**, rather than isolated interpretations of the data.

On top of this foundation, Kodjin Analytics provides an **AI-powered conversational layer** that allows users to ask questions in natural language and receive answers grounded in the governed analytics model. This makes the platform more accessible to non-technical users, while still supporting deeper exploration for analysts and technical teams.

Together, these layers create an analytics environment that is **scalable, consistent, and designed for real-world healthcare complexity**.

How Kodjin Analytics Works



Core Components



Data Integration

Connects structured and unstructured data sources across the healthcare ecosystem.

- Aggregates data from clinical, financial, and operational systems (EHRs, labs, billing, claims, and legacy platforms)
- Supports diverse data formats and standards without requiring full system replacement
- Eliminates data silos by creating a unified, continuous data layer

Result:

A complete, consistent view of data across the organization.



Continuous Processing

Ensures responses are always based on the most current data available.

- Continuously ingests and updates data as it is generated
- Eliminates reliance on batch-based reporting
- Enables near real-time monitoring of events, trends, and performance

Result:

Faster decisions with up-to-date, actionable information.



Analytical Engine

Enables high-performance querying and analysis at scale.

- Processes large volumes of data with sub-second response times
- Supports multidimensional analysis across clinical, operational, and financial domains
- Maintains performance as data volume and complexity grow

Result:

Instant answers to complex questions without performance bottlenecks.



Semantic Layer

Transforms raw, complex data into meaningful business and clinical concepts.

- Standardizes definitions for metrics, cohorts, and events
- Bridges the gap between technical data structures and real-world understanding
- Ensures consistency across teams, reports, and use cases

Result:

Trusted, explainable analytics that align across the organization.



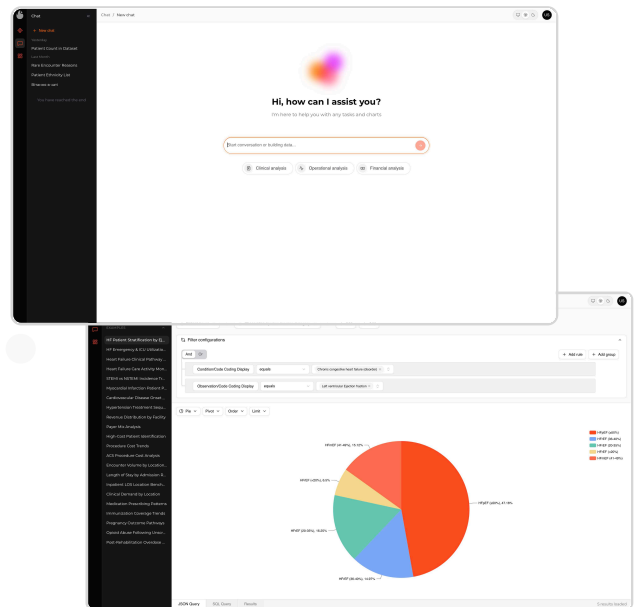
Conversational Interface

Allows users to interact with data by asking questions in plain language.

- Enables clinicians, analysts, and business users to ask questions directly
- Removes the need for SQL, dashboards, or technical expertise
- Supports iterative exploration and follow-up questions

Result:

Democratized access to data — anyone can get answers instantly.




Discover How **Kodjin Analytics** Works in Action

[Request a Demo](#)

Kodjin Analytics Capabilities

What sets Kodjin Analytics apart is its healthcare-native architecture. Rather than forcing healthcare organizations to adapt their data and workflows to generic analytics tools, Kodjin Analytics is built around the realities of healthcare from the start — including clinical semantics, compliance needs, and real-world operational use cases.

This makes it easier to achieve faster time-to-value with less modeling, re-engineering, and ongoing maintenance.

Capability	 Kodjin Analytics (Healthcare-native)	Cross-industry Analytics
Insight accuracy	Turns raw data into clinical concepts and understands their relationships (“cardiac events” = “arrhythmias”, “heart failure”).	Risk of semantic distortion when clinical meaning is translated into generic data structures.
Security and compliance	PHI remains within governed healthcare infrastructure aligned with HIPAA and GDPR. Role-based access, audit logging, consent-aware controls are embedded in the architecture.	PHI is often exported into external data warehouses or BI tools, expanding HIPAA and GDPR exposure. This requires additional custom security engineering.
Organizational scalability	One semantic foundation supports clinical, financial, and operational teams.	Each new use case requires additional modeling, engineering effort, and ongoing maintenance.
Fit to healthcare workflows	Designed around real use cases, supports how healthcare organizations actually operate.	Optimized for generic business reporting. Workflows must adapt to healthcare data analytics tools, not vice versa.
Time-to-value	Immediate cohort and longitudinal analytics without rebuilding data logic.	Months of semantic modeling and ETL work before insights become reliable.
Upfront investment	Ready for healthcare data out of the box. No data model re-engineering required.	Requires major investment in transforming, flattening, and remapping medical data and other healthcare data analytics services before value can be delivered.

Security and Privacy Accommodations

Privacy-by-Design Implementation

Privacy protections are built into the platform architecture:

Data Minimization: Only necessary data elements are processed for each analytical query

Purpose Limitation: Data use restricted to specified analytical purposes

Retention Controls: Automated data lifecycle management with configurable retention periods

Anonymization Pipeline: Statistical anonymization for research and quality improvement use cases

Zero-Trust Architecture

Our security model assumes no implicit trust:

Role-Based Access Control: Granular permissions based on job functions

Network Segmentation: Isolated network zones for different data sensitivity levels

Continuous Monitoring: Real-time security monitoring and threat detection

Kodjin Analytics Use Cases & Measurable Impact

Organizations using Kodjin Analytics achieve measurable improvements in how quickly they access actionable insights, reduce analytics bottlenecks, and turn data into action.

95%

Reduction in time-to-insight

Weeks → Seconds

90%

Reduction in IT analytics backlog

Users self-serve

Zero

Technical skills required

For end users

<1s

Query response across millions

Of records

Use Case	What Kodjin Analytics Delivers	Measurable Impact
High-Cost Patient Identification & Care Management	Identifies high-cost patient populations and analyzes the main drivers of utilization and spend.	Supports targeted interventions, reduces avoidable costs, and improves performance in value-based care.
Cost & Utilization Analysis	Analyzes treatment cost variation, service utilization, and operational outliers across providers, facilities, and populations.	Improves cost control, identifies efficiency opportunities, and supports better resource utilization.
Cohort Identification & Longitudinal Analysis	Builds cohorts using clinical and operational criteria and tracks outcomes over time across care settings.	Accelerates research, supports population health initiatives, and improves pathway analysis.
Clinical Trial Recruitment & Monitoring	Speeds up patient screening, eligibility assessment, and tracking of enrolled participants throughout the study lifecycle.	Reduces recruitment effort, improves screening accuracy, and supports protocol adherence.
Conversational Self-Service Analytics	Lets executives, clinicians, and operational teams ask questions in natural language instead of relying only on fixed dashboards.	Reduces dependence on analysts, shortens time-to-answer, and expands access to analytics across teams.
Regulatory Compliance & Audit Response	Assembles required data faster across multiple systems for quality measures, compliance checks, and audit inquiries.	Reduces response time, improves traceability, and strengthens compliance readiness.
Embedded Analytics for Healthcare Products	Provides a semantic layer and API foundation for embedding analytics into healthcare applications and platforms.	Accelerates delivery, reduces internal development effort, and shortens time-to-market.
AI Enablement for Healthcare Applications	Exposes healthcare data in business-friendly, semantically grounded terms that are easier for AI applications to use.	Speeds up AI solution development, improves consistency, and reduces implementation complexity.

See How **Kodjin Analytics** Could Help Your Organization

[Request a Personalized Session](#)

Kodjin Analytics Value for Healthcare Organizations



Healthcare Providers

Challenges

- Limited risk visibility
- Disconnected care data
- High operational pressure
- Dependence on analysts



Kodjin Analytics Value

- Real-time patient insights
- Longitudinal data analysis
- Faster decision-making
- Self-service analytics

Outcomes

- Improved patient outcomes
- Reduced readmissions
- Smarter resource utilization



EHR / EMR / HIS Vendors

Challenges

- Increasing demand for built-in analytics
- High cost of developing analytics features
- Complex integration requirements
- Need for AI capabilities



Kodjin Analytics Value

- Embedded analytics platform
- API-first architecture
- White-label capabilities
- AI-ready foundation

Outcomes

- Faster time-to-market
- Stronger differentiation
- Reduced development costs



Payers / Insurance Providers

Challenges

- Limited patient journey visibility
- Fragmented data sources
- Difficulty identifying risk
- High cost variability



Kodjin Analytics Value

- Unified data view across systems
- Advanced cohort analysis
- Risk identification and segmentation
- Stronger analytics capabilities

Outcomes

- Better cost control
- Improved care coordination
- Enhanced population health management

Why Now

Healthcare organizations are under growing pressure to improve outcomes, control costs, and move faster in increasingly complex data environments. Across both the U.S. and Europe, the challenge is the same: more data and higher expectations, but still too much friction in turning information into usable answers.

5.6%

Projected annual growth in U.S. health expenditures through 2032

81%

Of physicians now use AI in practice

22%

Of the EU population was aged 65+ in 2025

The next advantage in healthcare is not simply having more data. It is making data usable — accessible across workflows, understandable across teams, and ready to support faster decisions.

Conclusion

Kodjin Analytics enables a more effective way to work with data across clinical, operational, and financial domains. It brings together the infrastructure, semantic consistency, and user experience needed to turn fragmented information into usable analytics and meaningful insights for different roles across the organization.

With Kodjin Analytics, organizations can:

01

Unify data from multiple systems in one analytics environment

02

Align teams around consistent business and clinical definitions

03

Reduce reliance on manual reporting and analyst-heavy workflows

04

Extend analytics access to a wider range of users

This creates clear value across the healthcare ecosystem:

Providers gain better visibility into patient risk, care patterns, and operational performance, helping improve efficiency and reduce the cost of care

Vendors add embedded analytics and AI-ready capabilities without building everything from scratch, accelerating time-to-market

Payers strengthen risk analysis, cohort exploration, and cost oversight, while supporting compliance and reducing operational risk

Kodjin Analytics is designed to help healthcare organizations operationalize analytics more effectively — with a foundation that is scalable, accessible, and built for real-world healthcare complexity.

Unlock the Value of Your Healthcare Data

Discover how to turn complex data into actionable insights.

[Request a demo](#) to see Kodjin Analytics in action

