



TRANSFORMING HEALTHCARE DATA MANAGEMENT

Healthcare Cohorts

Our platform revolutionizes healthcare data management by dynamically generating and storing tenant-specific metadata during the ingestion process. This innovative solution enriches, profiles, and transforms data from tenant-specific formats to standardized canonical payloads, ensuring seamless interoperability across healthcare systems.



DYNAMIC METADATA GENERATION

The platform automatically discovers and stores metadata, enhancing data quality and consistency throughout the ingestion process.

CLUSTERED CACHE FOR PERFORMANCE

Metadata is efficiently loaded onto a clustered cache, optimizing data access for pipeline processes and ensuring high throughput with low latency.

STANDARDIZED VOCABULARY TRANSFORMATION

The platform transforms clinical domains into a standardized OMOP/CDM vocabulary, facilitating accurate codification of essential healthcare elements such as drugs, conditions, procedures, labs, vitals, and dental records.

BLOCKCHAIN-DRIVEN SECURITY

Tenant-specific rules, policies, and access controls are managed through blockchain technology, providing robust security and compliance with HIPAA regulations.

DYNAMIC LIFE EVENT LOGGING

Platform automatically captures and analyzes multi-modal life data—from wearable devices to environmental sensors—creating a detailed chronicle of daily activities and experiences.

This rich dataset enables a deeper understanding of individual lifestyles and health patterns.

MASTER PATIENT INDEX (MPI)

Utilizing advanced probabilistic and fuzzy matching heuristics, the MPI resolves patient identities across systems, offering a comprehensive 360-degree view of patient medical history. This feature supports performance measurement for physicians and enhances population health analysis.

PERSONALIZED HEALTH NAVIGATION

Utilizing machine learning techniques, Platform transforms raw data into actionable insights, providing users with tailored recommendations for improving their mental health and overall wellness. The platform continuously monitors user progress and adapts guidance based on real-time data.





Enhanced Quality of Care: By providing immediate access to comprehensive patient data, our platform empowers healthcare professionals to make informed decisions quickly, improving patient outcomes.



Operational Cost Reduction: The MPI minimizes duplicate tests and treatment delays through improved patient identification, significantly lowering operational costs.



Data Governance & Reliability: The platform maintains a business glossary of industry-standard codes and terms to ensure system reliability while identifying data elements for effective cataloging.



Real-Time Analytics: It analyses HL7 feeds in real-time using Complex Event Processing (CEP), enabling immediate insights from critical events such as lab results or admission notifications.



Scalability & Flexibility: The architecture supports high throughput for publishing and subscribing to tenant-specific agreements defined on the blockchain, ensuring efficient handling of varying workloads. The platform's architecture supports high throughput for data processing, making it adaptable to various healthcare environments and user needs.



Enhanced Decision-Making: With comprehensive insights into their health behaviors, users can make informed decisions that positively impact their mental and physical well-being.



Cost Efficiency: By reducing the likelihood of repeat tests and treatment delays through accurate patient identification, Platform lowers operational costs for healthcare providers.



Market Differentiation: Unlike traditional health management solutions that are reactive, Platform offers a proactive approach by continuously adapting to user needs, setting it apart in the digital health landscape.



The Healthcare Cohort Discovery Platform leverages AI-based agentic workflows and blockchain technology to enhance data management and clinical decision-making across healthcare systems. Serving clients such as Meharry Medical College and Banner Health, this platform transforms how healthcare providers access and utilize patient data. The integration of AI and blockchain in cohort discovery not only streamlines data access but also enhances the quality of patient care through predictive analytics and efficient workflows. This innovative platform is pivotal in addressing the complexities of modern healthcare needs while supporting educational initiatives in applied informatics.



Improved Clinical Efficiency

Cuts documentation time by 50% with evidence-based recommendations integrated into EHRs like EPIC and Meditech.



Enhanced Provider Satisfaction

Streamlined workflows reduce administrative tasks, enabling providers to prioritize patient care.



Our healthcare data management platform is positioned to transform how healthcare organizations manage patient data. By focusing on real-time processing, standardized vocabularies, and robust security measures through blockchain technology, we empower providers to deliver high-quality care efficiently while maintaining compliance with industry standards. Join us in revolutionizing healthcare data management for better patient outcomes and operational efficiency!



(770) 623 - 8878



info@cjiva.ai