QUISITIVE

Fabric Data Solution and Generative AI for Healthcare

Quisitive's Fabric Data Solution and Generative AI for Healthcare uses Microsoft's Fabric platform to improve patient and provider satisfaction by enabling critical efficiencies and insights.

Quisitive Data & AI solutions and Microsoft Fabric for Healthcare are reshaping how organizations in healthcare access, manage, and act on data and insights by connecting every data source and analytics service—on a single, AI-powered platform.

The solution is constructed using Microsoft Fabric and Azure OpenAI integration, which enables any Electronic Medical Records (EMR) system to seamlessly connect to the service and initiate the transmission of FHIR data.

Over 97% of healthcare data goes unused because it is unstructured or siloed.

Easily aggregate data from different data sets into a single data lake to perform advanced predictive analytics. The solution converts healthcare system data into FHIR format and compares healthcare providers based on criteria such as program, service, diagnosis, return to work percentages, and length of stay. The solution can derive predictive care plans tailored to individual patients by leveraging the available data. The predictive care plans this solution generates typically achieve an accuracy rate ranging from 85% to 90%.

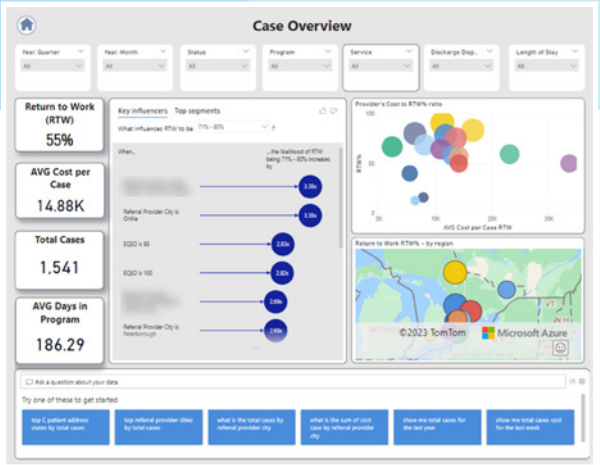
Within Microsoft Fabric, integrated tools are available, including text analytics for health and notebooks for data transformation across various layers**. This solution empowers users** to efficiently summarize clinical assessments and pathology results stored in the customer's document repository **to generate analytical insights and business intelligence (BI) visualizations.** The AI-powered visualization tools are facilitated through Power BI, allowing users to compare healthcare providers effectively.

Discharge 360 Dashboard:

- Provides analysis of patient outcomes for discharged patients
- Comparison between different providers to identify outliers

Provider Comparison Dashboard:

- Includes provider-level details including length of stay, return to work outcomes, and breakdown by service type
- Comparison between different providers to identify outliers



Case Overview Dashboard:

- Key influencers impacting the Return to Work (RTW) percentages leveraging AI- powered functions
- High-level overview of all patient cases with key influences on patient outcomes

Case 360 Dashboard:

- Deep dive into patient case attributes
- Case and patient specific details. Will also include summary of patient documents

Fabric Data Solution and Generative AI for Healthcare Includes:

> Identify healthcare related use cases to improve patient outcomes.

> Document current IT landscape and propose new architecture leveraging state-of-the-art Microsoft solutions.

> Deployment and setup of Azure resources to extract data from EMR and non-EMR systems.

> Data Mapping for non-FHIR compliant data.

> Develop Data transformation tools to convert EMR data into FHIR model.

> Deploy and setup Azure Form Recognizer to extract information from patient documents.

> Configure Microsoft Azure components to generate patient Clinical Summaries.

> Set up and deploy Text Analytics for Health to extract valuable medical data from all types of patient documents.

> 5 Power BI dashboards that provide key insights into patient outcomes, provider performance and cost of care in a format that is simple and easy to use.

Features and Benefits

- *Comprehensive document analysis encompassing clinical summaries*
- *Anticipatory care strategies*
- *Provider evaluation across programs, services, average cost, length of stay, return to work percentage, and diagnosis*
- *Identifying the significant factors that influence the return-to-work rate among patients*
- *Obtain clinical assessment summaries autonomously*
- *Compare healthcare provider data across multiple attributes through intuitive visuals*
- *Utilize AI models to derive predictive care plans from data*
- *Employ rapid connectors to convert client healthcare data into FHIR format swiftly*
- *Establish connections with any EMR system seamlessly*

With the integration of generative AI technology, **we can expedite the secure integration and centralization of healthcare data into one source of truth for analysis.** Fabric's analytics capabilities enable the acceleration of more precise and tailored care plans that significantly reduce wait times and enhance predictive care capabilities, ultimately revolutionizing predictive care capabilities.