CitiusTech

Shaping Healthcare Possibilities

Success Story

Scalable data infrastructure on Azure for operationalizing AI models

The Challenge
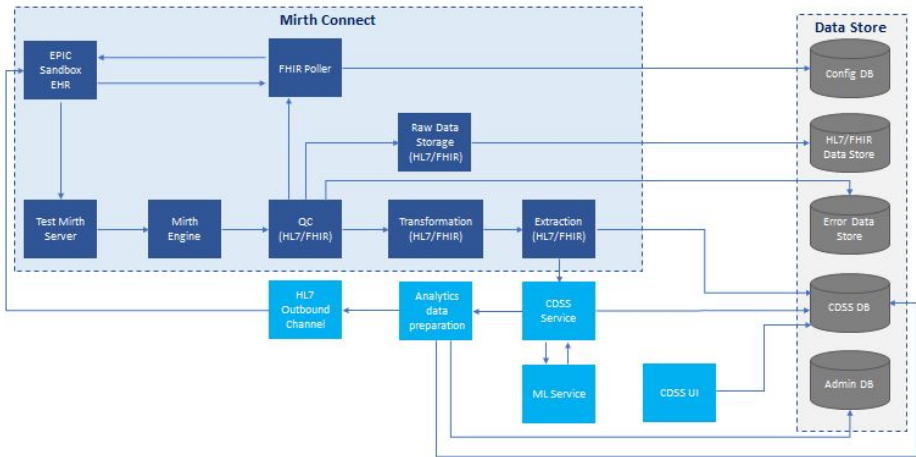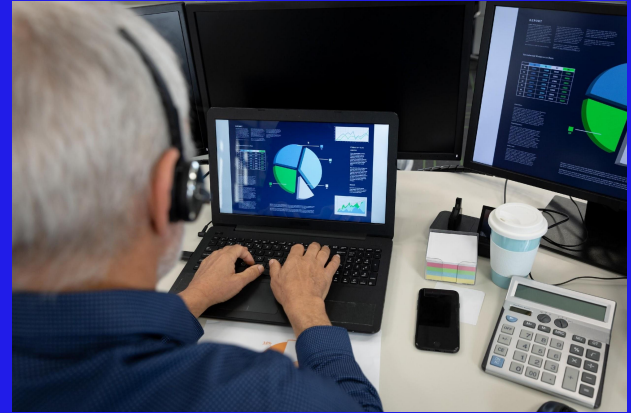
- Client is a leading Diagnostics and Life Sciences company dedicated to advancing and optimizing the laboratory & diagnostic medical devices and services.
- The client wanted to build a cloud hosted real-time scalable data infrastructure to build a portfolio of clinical decision support (CDS) and remote monitoring use cases.
- CitiusTech got selected as the preferred vendor to develop the platform given its expertise in Medical devices, Data Science and Cloud technologies

Solution(s) & Value Delivered

The Solution

- CitiusTech contributed to architecture, design and development of platform components for the CDS system using Azure DevOps, Azure ML services, etc.

- Leveraged Mirth Connect as Integration tool for HL7 & FHIR communication and deployed Mirth channels for key workflows (Data ingestion, QC and Error handling Support)

- Enabled Epic EHR sandbox integration for CDS application using FHIR APIs, development of SMART on FHIR app with responsive web UI, DevOps and Technical documentation

- Standalone CDSS web application with analytics services for patient dashboard, snapshot, labs & trends

- Facilitated automated deployment of AI Models for different CDS use cases

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Solution Highlights

- Enabled Automated deployment of AI Models for various CDS applications

- Delivered a system which can be extended easily to handle high data volumes and analytics/reporting needs in future for remote monitoring of device use cases

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Thank You

CitiusTech - Shaping Healthcare Possibilities.
CitiusTech is a global IT services, consulting, and business solutions enterprise 100% focused on the healthcare and life sciences industry. We enable 140+ enterprises to build a human-first ecosystem that is efficient, effective, and equitable with deep domain expertise and next-gen technology.

With over 8,500 healthcare technology professionals worldwide, CitiusTech powers healthcare digital innovation, business transformation, and industry-wide convergence through next-generation technologies, solutions, and products

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