



# Healthcare Big Data Practice

## Implementing a Robust Strategy for Healthcare Big Data

The CitiusTech Big Data Practice helps healthcare organizations develop and execute their Big Data strategy and manage growing volumes, velocity and variety of data from disparate sources.

The practice leverages best-in-class Big Data technologies to effectively store, process and query large healthcare datasets, and support Big Data use cases such as:

- Single source of truth to manage structured, semi-structured and unstructured data
- Real-time clinical alerts, notifications and events for automated and streaming analytics
- Machine Learning, statistical modeling, predictive analytics and NLP algorithms for mining healthcare data

The Big Data practice also enables healthcare organizations to build custom Big Data solutions that can be integrated with existing applications, helping them accelerate their Big Data initiatives.

## Highlights

- Expertise with Hadoop distributions (Hortonworks and Cloudera), NoSQL databases, Azure Databricks, AWS EMR and Google BigQuery
- Strategic partnership with Microsoft Azure and AWS for healthcare Big Data tools
- CitiusTech H-Scale platform for pre-built Big Data accelerators – data quality measurement, ETL, HL7 / FHIR / claims / CCDA parsing, NLP (for unstructured data),
- Strong expertise in healthcare interoperability, BI / DWH and Data Science models

## Healthcare Big Data Practice: Focus Areas

Consultation and POCs	<ul style="list-style-type: none"><li>▪ Recommendations around Big Data tools and platforms for data management and analytics</li><li>▪ POCs to test new solutions / technologies</li></ul>
Infra and Architecture	<ul style="list-style-type: none"><li>▪ Big Data environment setup and maintenance for development</li><li>▪ QA, staging and production, integration, security and hardening</li></ul>
Data Management	<ul style="list-style-type: none"><li>▪ Data ingestion, data indexing and searching for easy access</li><li>▪ Data lake creation, data normalization, standardization and processing</li></ul>
Data Analytics	<ul style="list-style-type: none"><li>▪ Analytics on cleansed and combined data (real-time and batch)</li><li>▪ Machine Learning, predictive modeling, etc. using open source and commercial software</li><li>▪ Visualization using Tableau, Cognos, Qlik, etc.</li></ul>

### About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to healthcare technology companies, providers, payers and life sciences organizations. With over 4,000 professionals worldwide, CitiusTech enables healthcare organizations to drive clinical value chain excellence - across integration & interoperability, data management (EDW, Big Data), performance management (BI / analytics), predictive analytics & data science and digital engagement (mobile, IoT). CitiusTech helps customers accelerate innovation in healthcare through specialized solutions, platforms, proficiencies and accelerators. With cutting-edge technology, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare organizations worldwide.

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