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Databricks introduces lakehouse for the healthcare and life sciences industries globally

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As the industry begins to embrace the power of AI, the lakehouse brings patient, research, and operational data together at scale to deliver new innovations in research and care



Databricks, the Data and AI company and pioneer of the data lakehouse paradigm, launched the industry's first lakehouse platform for organizations across the healthcare and life sciences industries.

The Databricks Lakehouse for Healthcare and Life Sciences eliminates the need for legacy data architectures which have historically inhibited innovation in patient care and drug discovery by creating data silos and making advanced analytics difficult.

With a single platform for data management, analytics and advanced AI use cases like disease prediction, medical image classification, and biomarker discovery, healthcare organizations can deliver on the promise of precision medicine.

"One of the biggest challenges facing healthcare organizations today is building a comprehensive view of the patient. The Databricks Lakehouse open and collaborative platform builds patient views across care pathways. By unifying our data in a single platform with a full suite of analytics and ML capabilities, we've diminished costly legacy data silos and equipped our teams with timely and accurate insights." Joji George, Chief Technology Officer, LCS Digital, GE Healthcare

Databricks' Lakehouse helps Healthcare and Life Sciences organizations in jumpstarting their analytics projects and save weeks to months of development time for data engineers and data scientists.

- **Disease Risk Prediction:** use ML to assess the risk of a patient for a given condition based on a patient's encounter history and demographics information.
- **Digital Pathology Classification:** rapidly analyze thousands of whole slide images with deep learning to automate the detection of metastasis.
- **Real World Evidence Suite:** seamlessly ingest a wide variety of data types, map to analytic data models like OMOP, and build cohorts with tools like propensity score matching.

- **Natural Language Processing with John Snow Labs:** analyze unstructured medical text using NLP for use cases such as oncology research, drug safety monitoring and anonymizing PHI.
- **Interoperability with Lovelytics:** automate the ingestion of streaming FHIR bundles into the lakehouse for downstream patient analytics at scale.
- **Biomedical Research with ZS Associates:** improve biomarker discovery for precision medicine with a highly scalable and extensible whole-genome processing solution.

"Lakehouse for Healthcare and Sciences accelerates the development of novel therapeutics and fundamentally change the way care is delivered by going from measuring disease to predicting it," said Michael Sanky, Global Industry Lead for Healthcare and Life Sciences at Databricks