Improving Health Outcomes with Data and AI

The human body is one of the largest sources of data on the planet. In fact, it’s estimated that a single person will generate over 1 million gigabytes of health data in their lifetime—that’s equivalent to 300 books. By connecting these massive volumes of data and analyzing at scale, organizations can unlock innovation across the healthcare ecosystem from accelerating drug discovery to personalizing care.

Barriers to data-driven innovation

Despite the promise of AI, most healthcare and life sciences organizations struggle to tap into the full potential of data and AI due to the challenges of legacy technology.

- Unable to scale for rapidly growing health data
- Data silos result in a narrow view of the patient
- Lack real-time insights for critical decisions
- Complex tools for advanced analytics

Unleashing the power of data with the Databricks Lakehouse for Healthcare and Life Sciences

The Databricks Lakehouse Platform for Healthcare and Life Sciences enables organizations to bring together all their patient, research and operational data with powerful analytics and AI capabilities to deliver real-time insights at population-scale.

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| | **DATABRICKS LAKEHOUSE FOR HEALTHCARE & LIFE SCIENCES** | |
| | Analytics and AI Templates | |
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Lakehouse for Healthcare and Life Sciences

Platform Benefits

**360° view of the patient**
Store and analyze all types of structured and unstructured data (e.g. claim, EHR, genomic, image, text) to build a 360 degree view of patient health

**Real-time insights for agile operations and care**
Reliably analyze streaming data to enable real-time healthcare decisions

**Population-scale analytics**
Quickly and reliably analyze data for millions of patients to better understand the risk factors and treatments that impact health

**Predictive care and R&D**
Connect your data directly to a full suite of collaborative ML tools to drive innovation in care and drug R&D

Industry leaders innovate on Databricks

The Lakehouse Platform is enabling organizations across the ecosystem to collaborate and unlock data-driven innovation for a wide range of use cases all aimed at improving health outcomes.

**CVS Health**
Analyzed data for 10,000 stores to build personalization models that increased medication adherence by nearly 2%, improving the quality of life for their pharmacy customers.

**SANOFI**
Applied machine learning to 17M+ electronic health records to identify new treatment indications for approved therapies while reducing data processing costs by 30%.

**SANFORD HEALTH**
Modeled large volumes of patient data (e.g., images, genomics, EHR) to provide clinicians with genetically informed disease risk reports that improve care planning.

Get started with solution accelerators

Databricks and our ecosystem of partners have built a suite of solution accelerators to help organizations derive value from their lakehouse projects faster with prepackaged templates and services for popular data and AI use cases.

**accenture**
Intelligent Drug Repurposing

**Lovelytics**
Interoperability

**John Snow LABS**
Natural Language Processing for Healthcare

**ZS**
Biomedical Research Intelligent Data Management

**databricks**
Disease Risk Prediction

**databricks**
ML for Digital Pathology

Learn more about the Databricks Lakehouse for Healthcare and Life Sciences [dbricks.co/HLS](dbricks.co/HLS)

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