

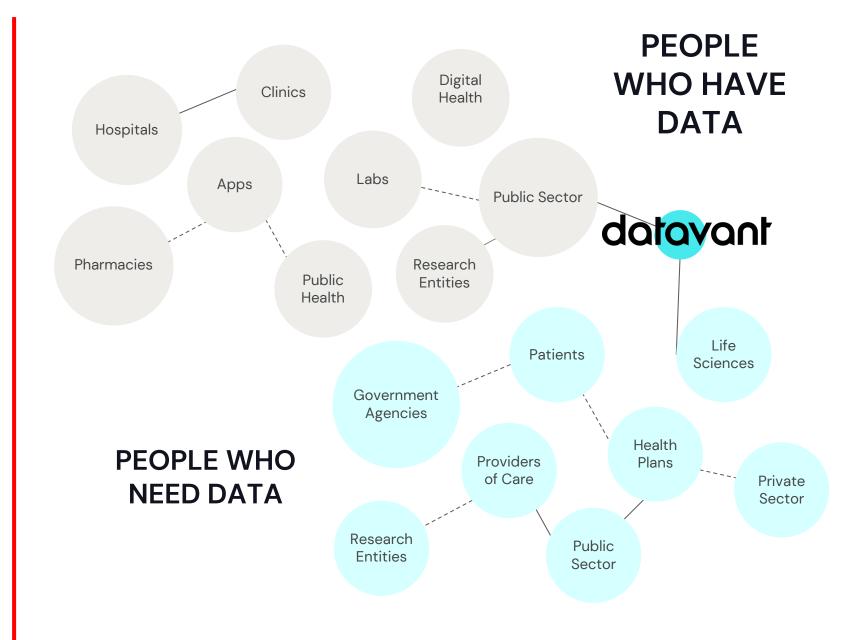
Sparking real world data connectivity:
Datavant +
Databricks Clean
Rooms



Garrett Little, Customer Success, Datavant Mark Lee, Industry Solutions Lead, Databricks June 11th 2024

Datavant is solving the broken data supply chain issue

Datavant helps connect people who have data securely share it with people who need data



A dysfunctional supply chain hurts everybody



Health Care Providers

Develop policy without population data



Life Sciences

Cannot access fit-forpurpose RWD



Other Private Sector

Inability to access the right data to inform decisions



Health Plans

Struggle to optimize funding



Public Sector

Develop policy without population data



Patients

Suffer from a system with slowed innovation and insufficient care



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Health data needs to move securely, compliantly, and frictionlessly from where it sits, to where it needs to be

- → From any source
- → In any format
- → To solve every use case

datavant

Bringing Data Logistics to Healthcare



datavant + sedatabricks

In 2023 Datavant partnered with Databricks to bring patient data connectivity solutions to where the data resides



Growing Marketplace Ecosystem





Databricks Marketplace

170+ 1,700+ listings

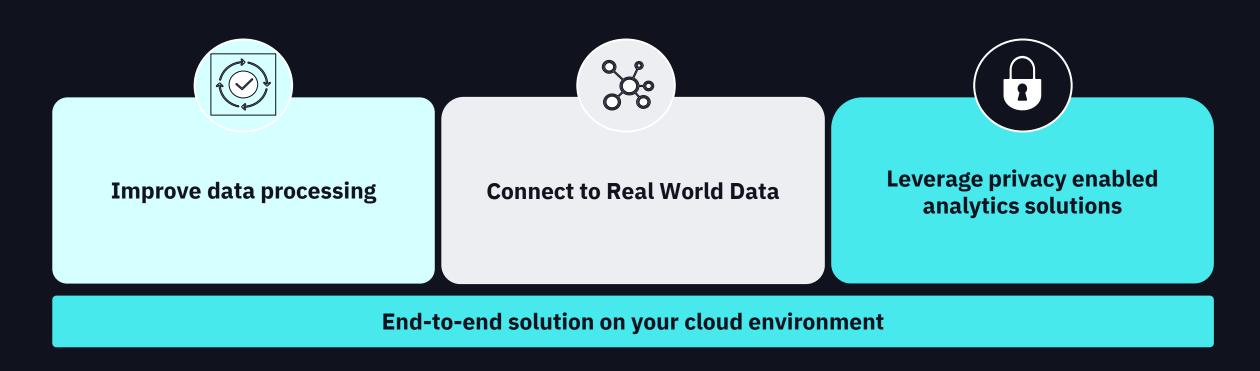
100K+

visitors

80% QoQ

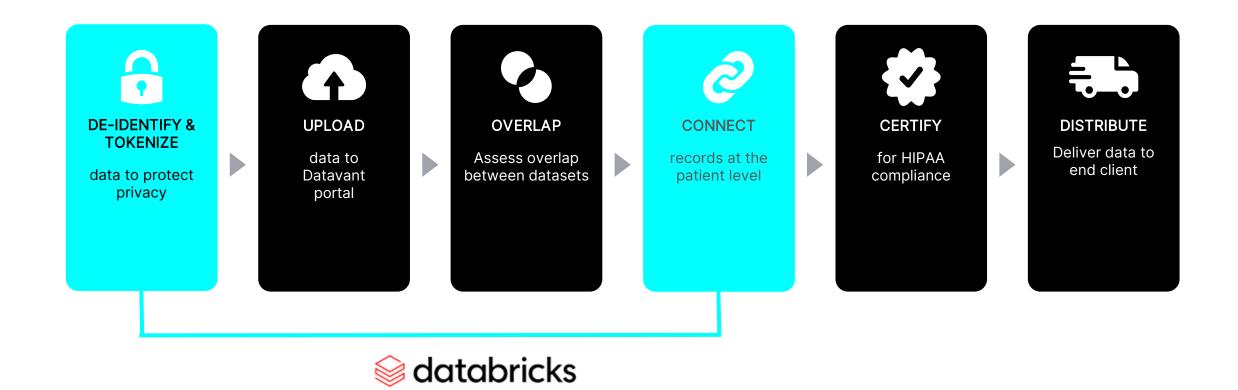
growth in active connections

Datavant's purpose-built solution on Databricks maximizes cloud investments

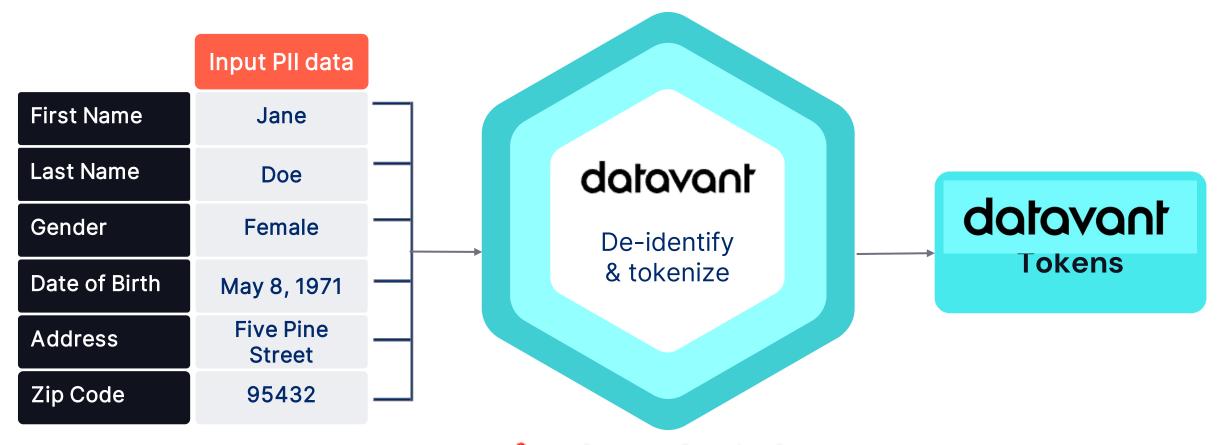




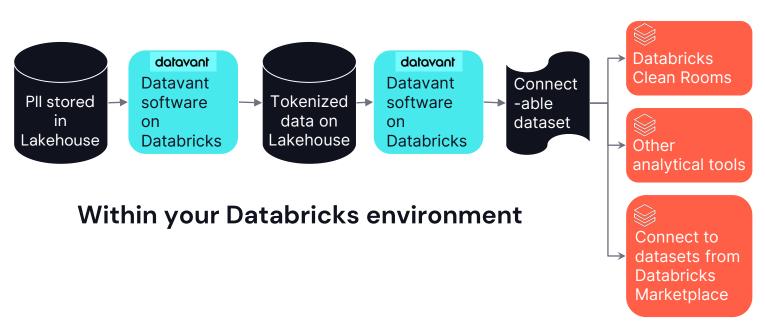
Datavant solutions now natively usable within Databricks



Datavant's tokenization and privacy preserving connect keys integrated with Databricks



Datavant on Databricks simplifies data processing



- Data stays in your Databricks
 Lakehouse environment
- Tokenized data can be connected to internal and external datasets
- Data can be used in Databricks analytics tools, including Clean Rooms



CODE SAMPLE

Sample Cleanroom Code

PYTHON Getting datasets in a cleanroom from pyspark.sql.functions import col, to date # Read in data assets from the cleanroom dfA = (spark.read.format("delta").table("collaborator a.cleanroom.a tokens") .withColumn("DOB", to date(col("DOB"), "yyyy/MM/dd")) .withColumn("ServiceDate", to date("ServiceDate", "yyyy/MM/dd"))) dfB = (spark.read.format("delta").table("ml demos.datavant.cleanroom b tokens") .withColumn("DOB", to date(col("DOB"), "yyyy/MM/dd")) .withColumn("ServiceDate", to date("ServiceDate", "yyyy/MM/dd")))

CODE SAMPLE

Sample Cleanroom Code

PYTHON Join the two datasets along tokens and get patient collisions 11 11 11 from pyspark.sql.functions import col # join the two datasets together using token 1 and token 2 overlapping rows = (dfA.join(dfB, on = ["token 1", "token 2", "ServiceDate", "DOB", "Diagnosis"], how = "inner")) # print the count of identified patients print(f"Number of identified patients : {overlapping rows.count()}")



Case study: Veritas



Veritas was having challenges using Datavant on prem

- The <u>Datavant on prem product</u> was taking Veritas 24+ hours to tokenize, transform, and send
- Every hour was a delay in delivering data assets to data buyers

They tested the Datavant on Databricks integration

- Veritas became a pilot customer of the Datavant on Databricks product
- They tested workloads of 40-80M patient datasets stored on Databricks

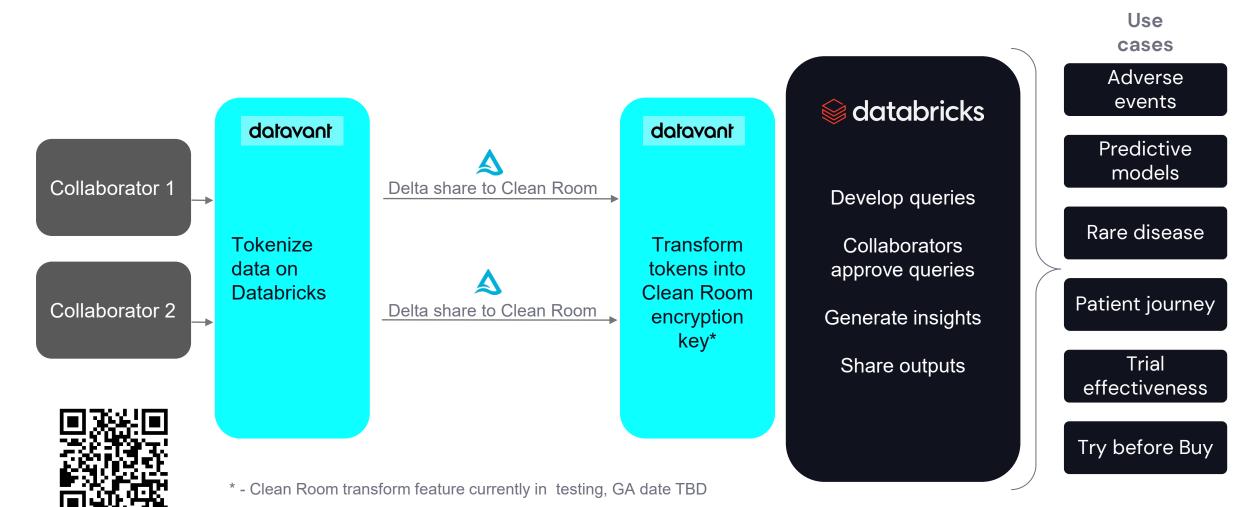
Veritas saw significant speed improvements

- Veritas realized the power of Databricks' Spark technology
- Veritas achieved 4x time savings using the native application
- 80 million records were tokenized in 20 minutes, transformations in 5, and delivery in 15 minutes

RESULTS: ~4x time savings ● ~45% FTE time reduction ● ~75% CPU cost reduction



Databricks and Datavant are enabling a new way to analyze data in healthcare





Our partnership enables new use cases for healthcare and life sciences



Opening the ecosystem for new data sources who want stricter controls on how their data is used



Enriching proprietary data with RWD for analytics on patient outcomes



Accelerating time to market for new interventions or drugs



Better understanding of the patient journey and intervention effectiveness



When Would This Make Sense for You?

If you have...

- High data volume
- Continuous data processing / frequent transformation
- Your team is spending time on upgrading / managing CLI
- You want to simplify your data pipelines for tokenization/linking
- You want to save money (no promises but possibility!)



Protect. Connect. Deliver.