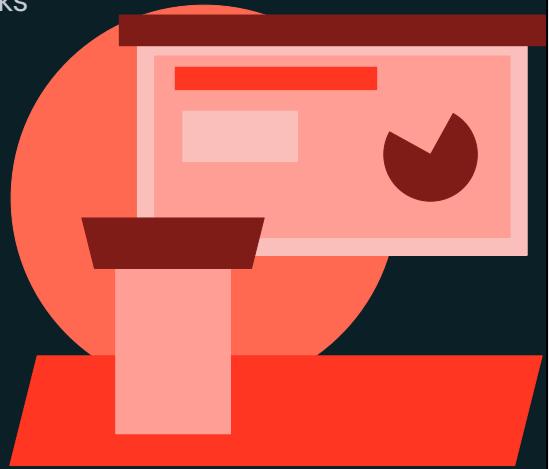




Introduction to Data Engineering in Databricks

LECTURE

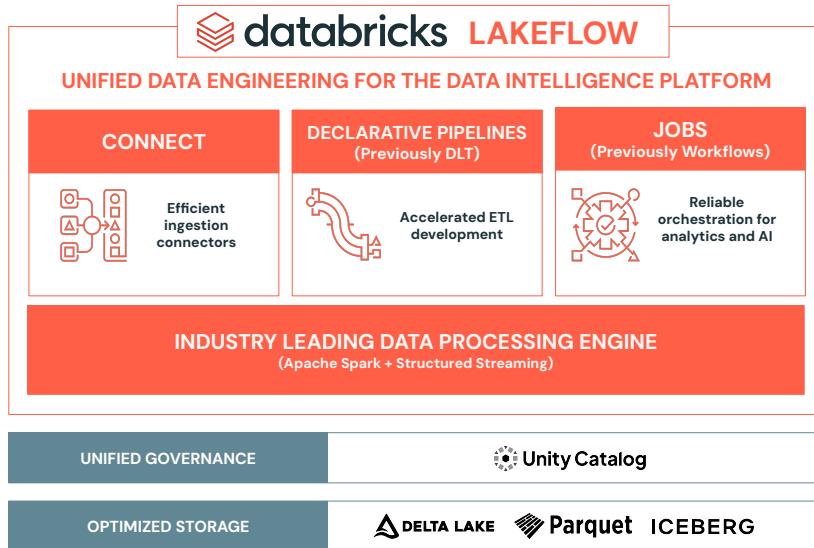
# Data Engineering in Databricks



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In this lecture, we'll explore how Databricks streamlines data engineering by enabling seamless data ingestion and management using LakeFlow Connect and advanced storage solutions like Delta Lake, Parquet, and Iceberg.

# Data Engineering in Databricks



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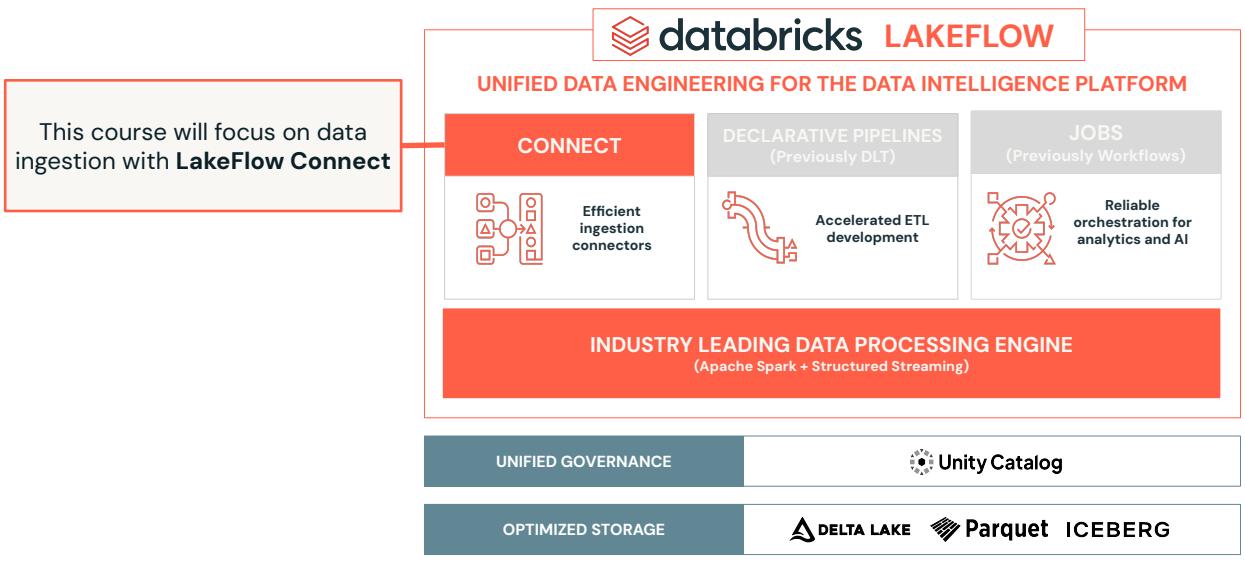
It all begins with optimized storage using Delta Lake, Parquet, or Iceberg.

Built on top of this storage layer is unified governance with Unity Catalog. Unity Catalog is a centralized data catalog that provides access control, auditing, data lineage, quality monitoring, and data discovery across Databricks workspaces.

Databricks then offers **Lakeflow**, an end-to-end data engineering solution that empowers data engineers, software developers, SQL developers, analysts, and data scientists to deliver high-quality data for downstream analytics, AI, and operational applications. Lakeflow provides a unified platform for data ingestion, transformation, and orchestration, and includes the following components:

- **Lakeflow Connect:** A set of efficient ingestion connectors that simplify data ingestion from popular enterprise applications, databases, cloud storage, message buses, and local files.
- **Lakeflow Declarative Pipelines:** A framework for building batch and streaming data pipelines using SQL and Python, designed to accelerate ETL development.
- **Lakeflow Jobs:** A workflow automation tool for Databricks that orchestrates data processing workloads. It enables coordination of multiple tasks within complex workflows, allowing for the scheduling, optimization, and management of repeatable processes.

# Data Engineering in Databricks



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This course will focus on data ingestion with LakeFlow Connect into the Databricks Data Intelligence platform.



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Thank you for completing this lesson and continuing your journey to develop your skills with us.