Build Robust Production Data Pipelines at Scale

Data quality issues and the resultant data pipeline complexity to deal with them can be the bane of many data professionals’ existence. Whether you are chartered with advanced analytics, developing new machine learning models, providing operational reporting or managing the data infrastructure, the concern with data quality is a common theme. Data engineers, in particular, strive to design and deploy robust data pipelines that serve reliable data in a performant manner so that their organizations can make the most of their valuable corporate data assets. Unified analytics is a modern approach that serves data engineering needs well.

Unified Analytics Powering Data Engineering

Founded by the team that originally created Apache Spark™, Databricks provides the UNIFIED ANALYTICS PLATFORM that accelerates innovation by unifying data science, engineering and business. The platform comprises three layers:

WORKSPACE
Provides notebook-based collaboration and automates pipelines through production jobs

RUNTIME
Unifies data and ML at scale through built-in ML frameworks and innovations like Delta Lake and MLflow

CLOUD SERVICE
Removes the complexity of managing the underlying cloud infrastructure

WITH THE PLATFORM DATA ENGINEERS CAN DEPLOY AND MANAGE ROBUST PRODUCTION DATA PIPELINES AT SCALE TO SUPPORT THEIR ORGANIZATIONS’ ANALYTICS NEEDS.

Delta Lake is an open source storage layer that brings data reliability to data lakes. It provides ACID transactions, is compatible with Apache Spark APIs and includes streaming and batch readers and writers.

- ACID transactions
- Schema enforcement
- Data versioning
- Unified batch & streaming data
- Compatible with Apache Spark
- Schema evolution

Delta Lake
Parquet Files
Transactional Log
Streaming Batch Updates/Deletes
High quality & Reliable Data always ready for analytics
Data Engineering, Simplified

Databricks’ Unified Analytics Platform removes the complexity of data engineering and accelerates data engineering tasks from data access to ETL, allowing engineers to build robust production data pipelines at scale.

Try building next-gen data pipelines today using the free trial or the Community Edition databricks.com/try

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