Databricks Data Intelligence Platform on Azure

Microsoft Azure

Sources	Ingest	Transform	Query / Process	Serve	Analyse	Integrate

Data Intelligence Platform

Automation & Orchestration
- Workflows
- CI/CD tools
- DataOps
- MLOps

Apps
- Databricks Apps

ETL

Sources:
- Files / Logs (semi-structured)
- Sensors and IoT (unstructured)
- RDBMS (structured)
- Business Apps (structured)
- Media (unstructured)
- Other clouds

Batch & Streaming
- Auto Loader
- Lakeflow Connect

Data Science & Machine Learning (Mosaic AI)
- Feature Engineering
- Classic ML
- Gen AI
- Feature Serving
- Vector Search
- Model Serving
- AI Gateway

Data Analysis
- AI/BI Dashboards
- AI/BI Genie

Date Engineering & Processing
- Delta Live Tables
- Spark / Photon

Data Warehousing
- AI Functions
- Databricks SQL

Batch & Streaming
- Azure IoT Hub
- Azure Event Hub
- Azure Data Factory
- Fabric Data Factory

Data Intelligence Engine (Databricks IQ)
- Predictive IO
- Predictive optimization
- Assistant

Federation

- Synapse
- SQL Server
- ...

Data and AI Governance (Unity Catalog)
- Lakehouse Federation
- Catalog & Lineage
- Access Control
- AI Assets*
- Lakehouse Monitoring

Operat. DBs
- SQL DB
- Cosmos DB

BI
- Power BI+Copilot

Data Management
- Delta Lake
- UniForm
- bronze → silver → gold

Collaboration
- Delta Sharing
- Market place

Business Apps
- Business/AI App

3rd party
- Data Consumer

ADLS Gen 2

Storage

Integrate
- ID Provider
  - Entra ID
- Governance
  - Purview
- AI Services
  - Hugging Face
  - OpenAI
  - ...
- Orchestration
  - External Orchestrator

Key
- Domain
  - Key capability

* features, models, functions