Azure Databricks (Data Processing & Transformation) Azure Data Factory (ETL Silver Layer → Cleaned **Bronze Layer** → *Raw* **Gold Layer** → *Analytics*-Pipeline) & Enriched Data Optimized Data Ingested Data Data Extraction via API (Ingestion Layer) DELTA LAKE **Parquet Parquet** Power BI (Reporting) Azure Data Lake Storage (ADLS Gen2) **Medallion Architecture (Lakehouse Pattern for Data Quality)** NYC Taxi Trip Data (External API Source)