

AZURE TRAINING PROGRAM

MEET YOUR MENTOR



Abhishek Agrawal, a Microsoft Certified Azure Data Engineer with over 8 years of immersive hands-on experience, is a catalyst for career transformations in Azure Cloud. A distinguished NIT Raipur graduate, he specializes in Azure Data Factory, Databricks, Synapse Analytics, and more.

Abhishek's pedagogy seamlessly integrates theoretical knowledge with practical insights, offering a holistic learning experience in data engineering.

Renowned for propelling hundreds of individuals into thriving Azure Cloud careers, Abhishek's teaching philosophy revolves around real-world projects, daily practice, and a steadfast focus on practical implementation.

His commitment extends beyond conventional learning, providing comprehensive support for career transitions, interview preparation, and perpetual access to class recordings.

Embark on a transformative learning journey with Abhishek, where his passion for immersive education ensures that every concept taught is immediately applicable and relevant.

Join his dynamic classes for a hands-on exploration of the world of data engineering, cloud solutions, and the pathway to unparalleled career success. Let Abhishek guide you in constructing your success story in the realm of data engineering.

WHAT SETS US APART?

Compact & Interactive Batch Training

Peer-to-Peer Learning Environment

Real-time Training with Practical Experience

Certification Support (AZ-900, DP-900, AZ-203)

Professional Resume Building Assistance

Job Profile Optimization

Mock Interview Sessions

Guidance for International Job Interviews

Lifetime Access to Course Recordings

Course Completion Certificate

Comprehensive Interview Questions
from 50+ Companies

COURSE - AZURE DATA ENGINEERING + DATABRICKS & SPARK FOR BIG DATA

This Course is ideal for:

- Individuals who are new to Azure, requiring zero prerequisites.
- Beginners in the field of data analysis.
- Those eager to learn Azure Data Factory (ADF), Databricks, and Synapse.
- Those who want to gain knowledge in Big Data processing and Spark.
- Professionals currently working with Informatica, SSIS, and Power BI, seeking to transition into Azure.
- Data analysts looking to make a switch to Azure.

COURSE - AZURE DATA ENGINEERING

- 1) Understanding Azure basics: subscription, resource group, and management group creation, and an introduction to Azure Data Factory (ADF).
- 2) Exploring Blob and Data Lake Gen2 storage.
- 3) Integration runtime, linked services, data sets, pipelines, and activities in ADF. Copying data for a single file.
- 4) Advanced copy data activities: Recursive, wildcard, file listing, mapping, user properties, and various settings.
- 5) Implementing For Each loop for copying multiple files.
- 6) Copying data to SQL Server: upsert, pre-copy script, and AutoCreate table options.

COURSE DURATION - 2 MONTHS

- 7) Parameterization of Pipeline and Activity.
- 8) Lookup activity and handling multiple files using lookup.
- 9) Delta load strategy for a single file.
- 10) Delta load for multiple files.
- 11) Git integration and Azure DevOps collaboration.
- 12) Overview of Azure Databricks integration.
- 13) Delta table and properties of Delta Lake.
- 14) Lakehouse and Medallion Architecture.

- 15) Azure Active Directory, tenant, subscription, and user management.
- 16) Advanced activities: If-else, metadata, and web activities.
- 17) Triggers: event-based, scheduled, and tumbling window triggers and Parameterization of triggers
- 18) Azure Synapse: SQL, serverless pool, and dedicated pool.
- 19) Data flow concepts: mapping, wrangling.
- 20) Azure Key Vault and shared integration runtime.
- 21) JDBC connector and secret scope in Azure Databricks.

- 22) Fact and dimension.
- 23) star, snowflake schemas, and data modelling.
- 24) Creating stored procedures for data modelling.
- 25) Slowly Changing Dimension and SCD Type 2 implementation in warehouse.
- 26) Sending email alerts using Logic App.
- 27) Advanced data processing with CSV, JSON, and XML in Pyspark, Scala, and Python.
- 28) Delta Lake principles and best practices.

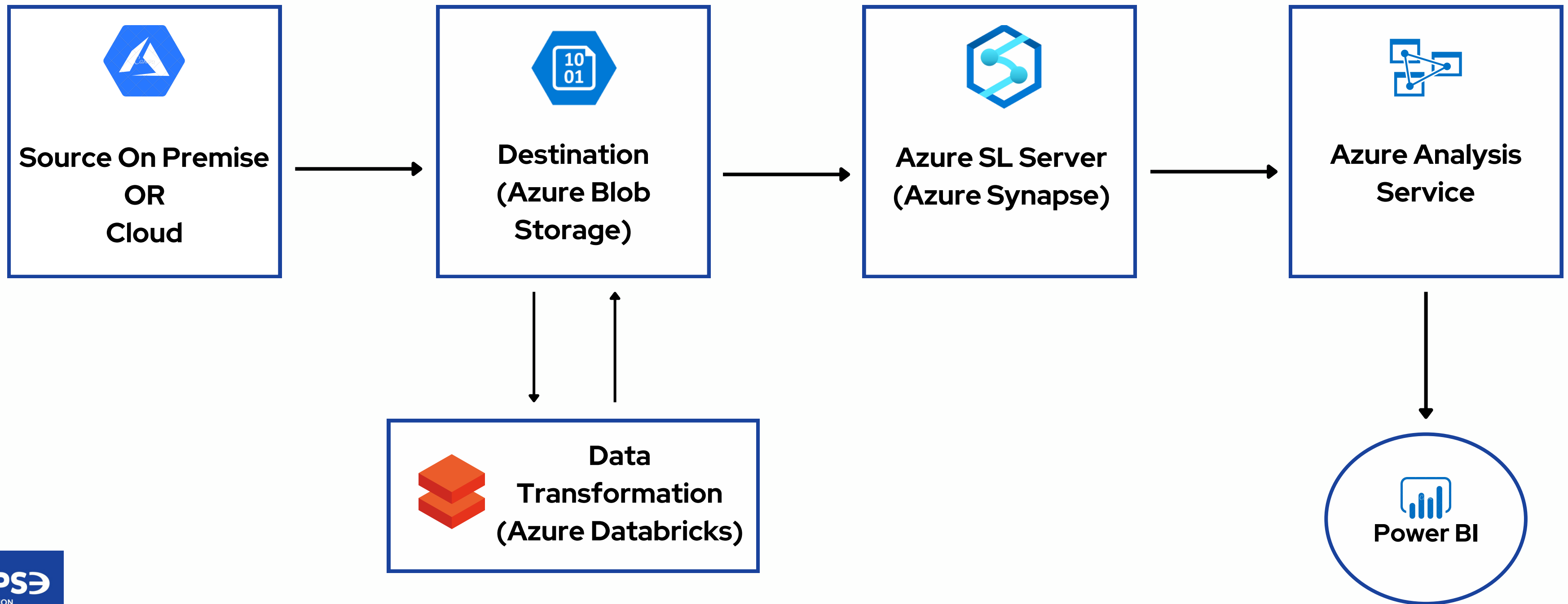


Includes Resume Building, Mock Interview & Certificate Assistance

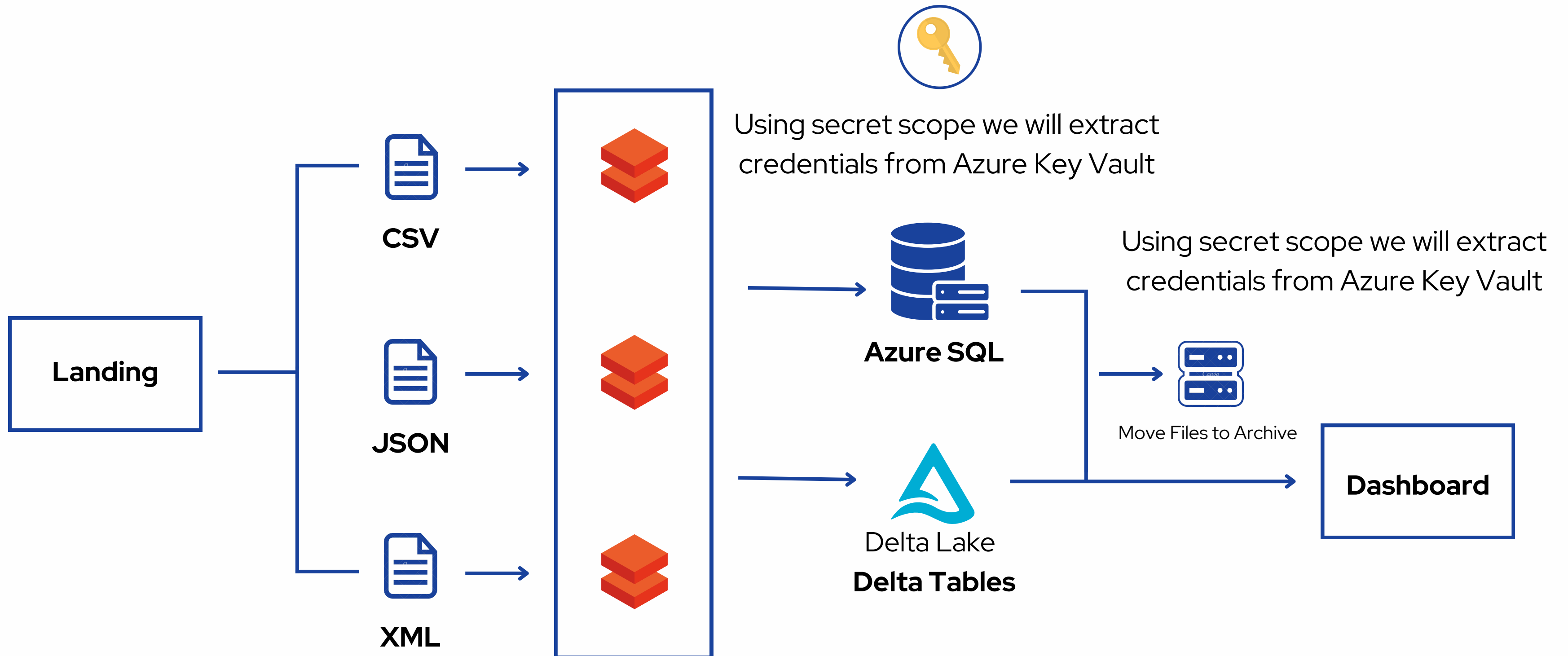
Architectures Covered Within the Course are as Follows

COURSE FEES - RS 33,000

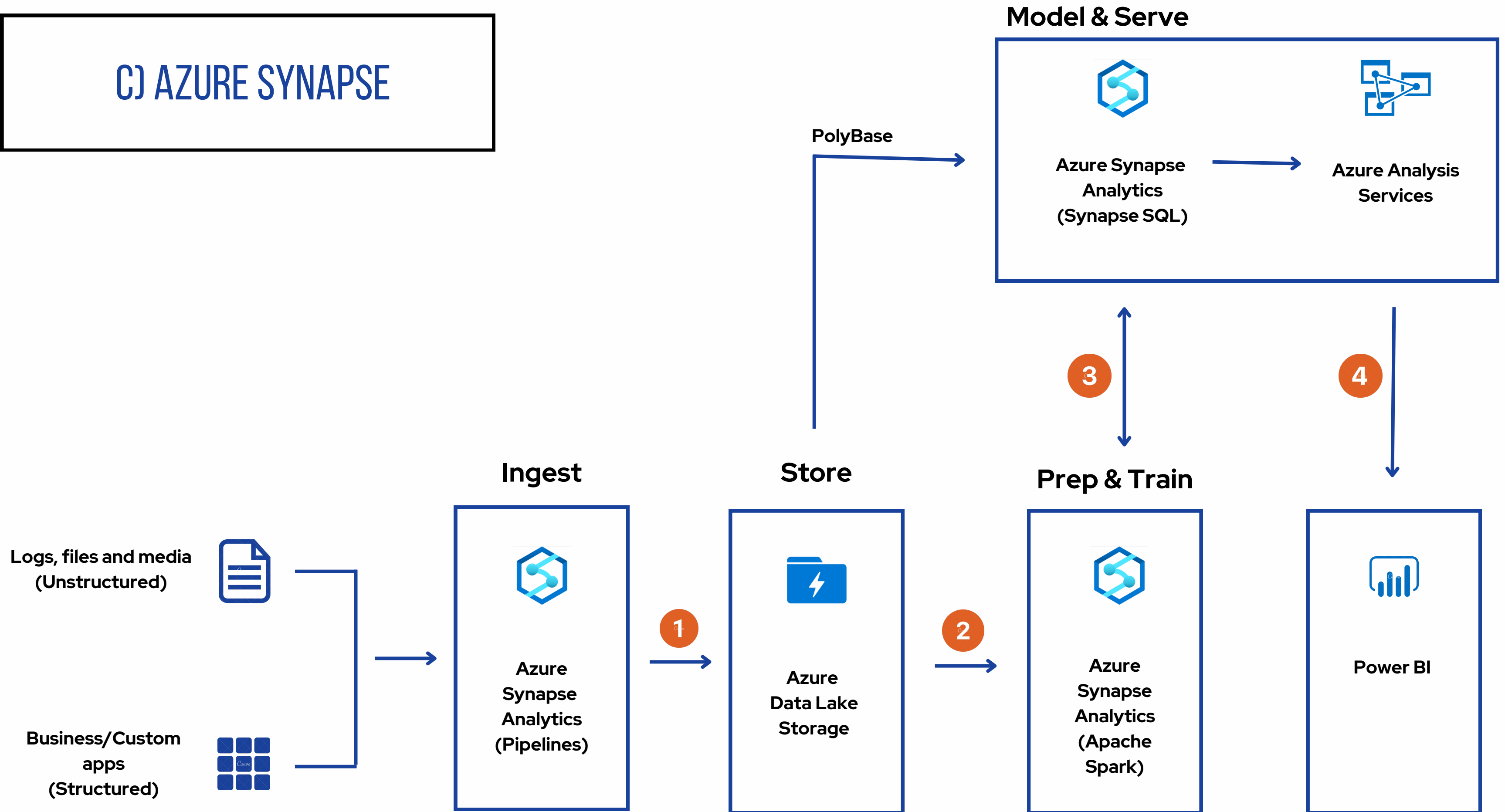
A) AZURE DATA FACTORY



B) AZURE DATABRICKS



C) AZURE SYNAPSE



COURSE - DATABRICKS & SPARK FOR BIG DATA

- 1) Introduction to Databricks and Spark Architecture
- 2) Databricks Workspace Overview
- 3) Understanding Databricks Architecture and Services
- 4) Cluster Management: Creation and Administration
- 5) RDD and DataFrame Fundamentals
- 6) DataFrame Spark API and Data Source Spark API
- 7) Conversion between PySpark and Pandas
- 8) Common Transformation Techniques in PySpark

COURSE DURATION - 2 MONTHS

- 9) Transformations and Actions
- 10) Dbutils and Usage of Dbutils and Parameterization
- 11) Table Manipulation with Delta Lake and Delta Table
- 12) Read and Process CSV, JSON, XML Files
- 13) Types of Views in Databricks
- 14) Managed and Unmanaged Tables
- 15) Azure DevOps, Git Integration, Cherry Pick, Revert
- 16) Secret Scope

- 17) JDBC Connector for SQL Server
- 18) Databricks CLI and Backup Process Setup
- 19) Understanding Spark UI.
- 20) Unity Catalog and SCD Implementation
- 21) Lakehouse Architecture and Medallion Architecture
- 22) Spark Optimization
- 23) UDF
- 24) Catalyst Optimizer and DataFrame.explain

- 25) Directed Acyclic Graphs (DAG) and Adaptive Query Execution
- 26) Handling Complex JSON and Struct Data Types
- 27) Predicate Pushdown and Projection Pushdown
- 28) Repartition, Coalesce and Cache, Persist
- 29) Handling Data Skew and Salting
- 30) Sort Merge and Broadcast Join, and Z-Ordering
- 31) Orchestration and Scheduling Techniques
- 32) Course Conclusion - Key Takeaways

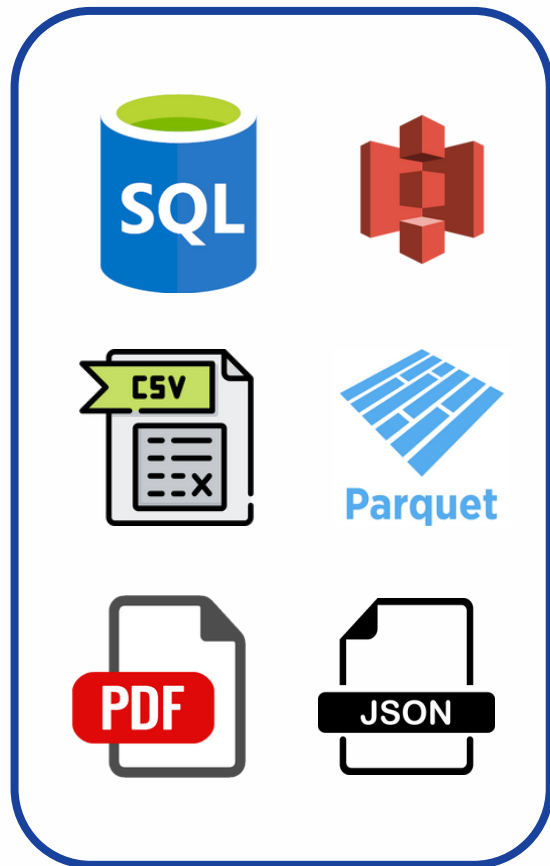


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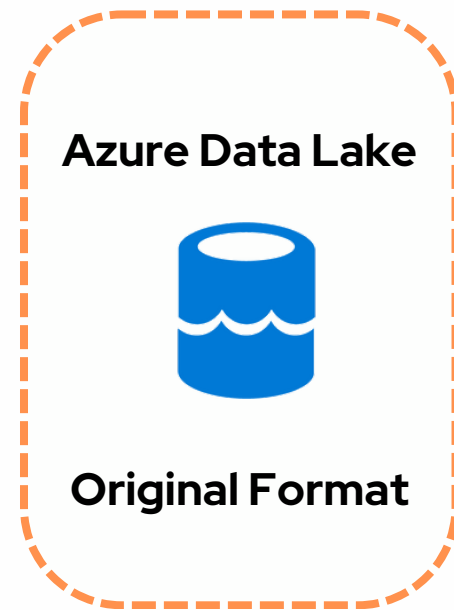
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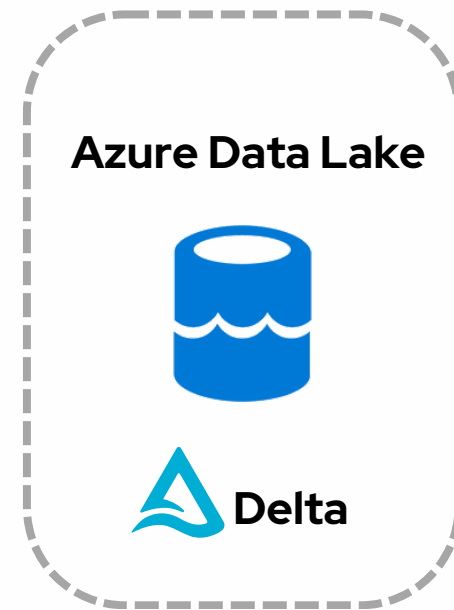
Ingestion with
Synapse Pipelines

Lakehouse Storage Layers

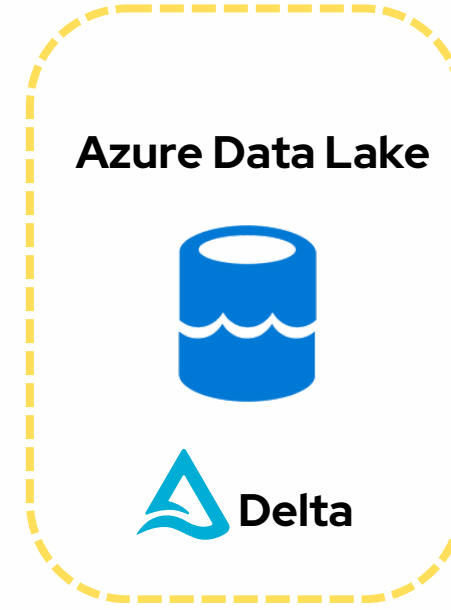
Bronze



Silver

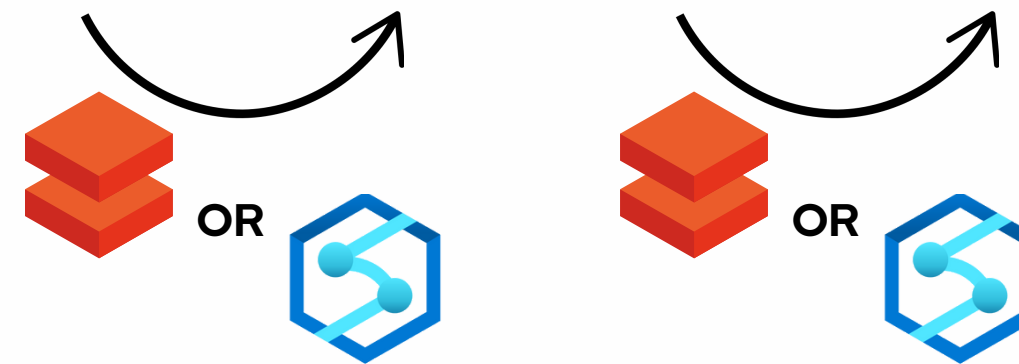
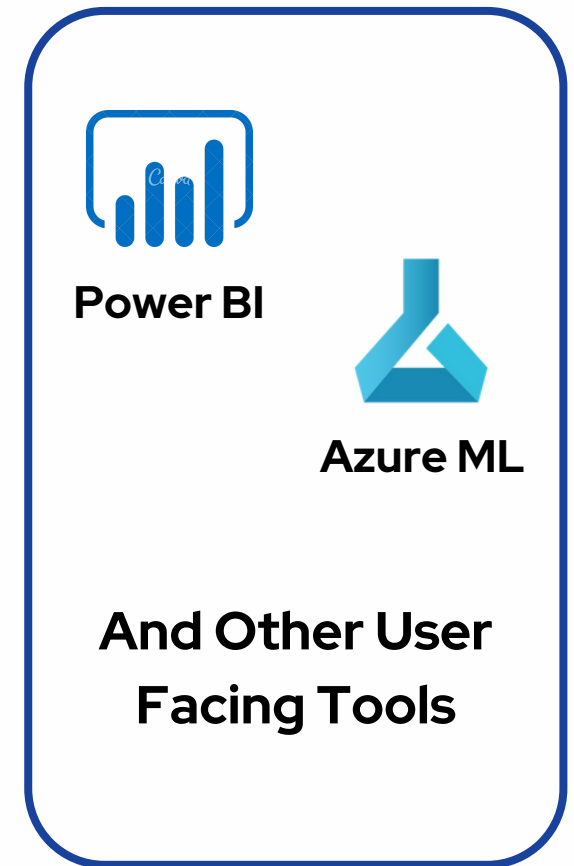


Gold

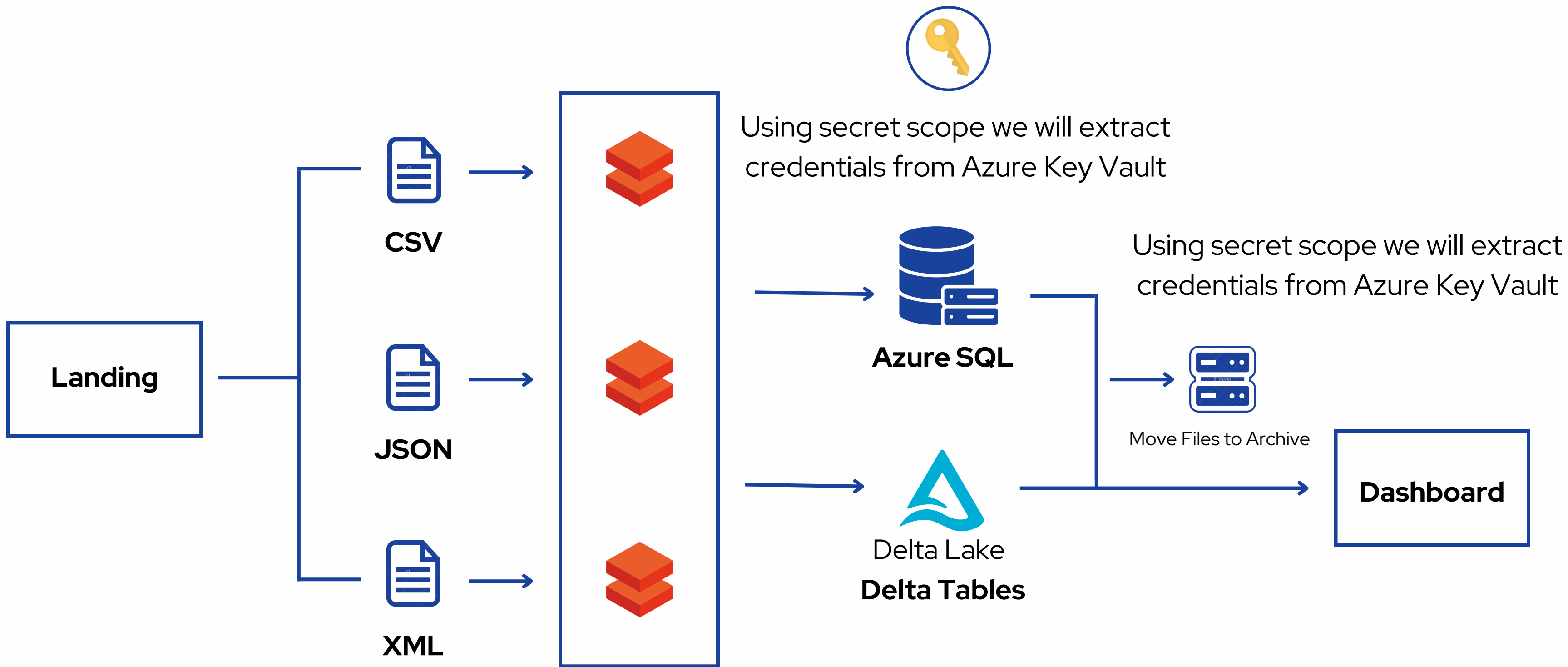


Serverless OR
Dedicated Pool

Serve



Processing or Transformation with
Databricks or Synapse Pipelines



CONTACT US

If you have any questions, feedback, or inquiries, please don't hesitate to get in touch with me.
I strive to respond to all inquiries within 24-48 hours.



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