

# 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 - DATABRICKS & SPARK

*This Course is ideal for:*

- Individuals seeking a specialized course in Big Data and Databricks.
- Basic knowledge in SQL or Python.

## COURSE - DATABRICKS & SPARK

COURSE DURATION - 2 MONTHS

- 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

- 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

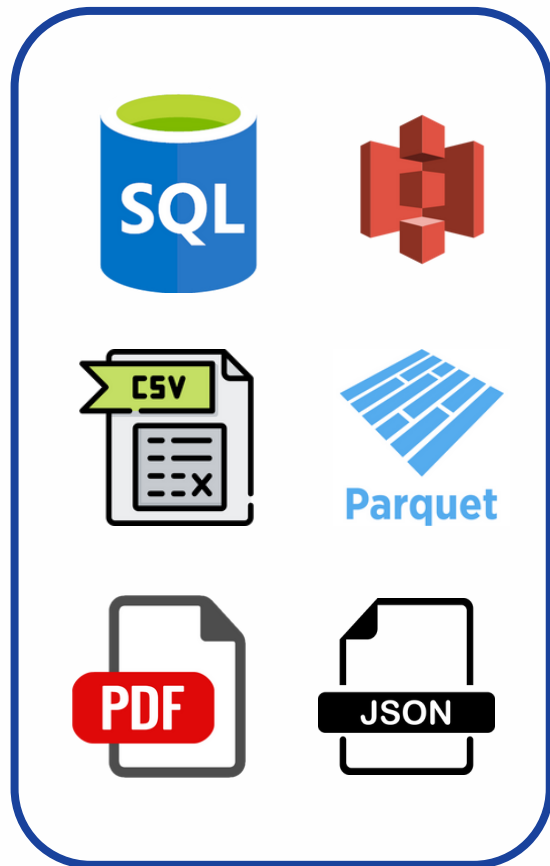


**Includes Resume Building, Mock Interview & Certificate Assistance**

**Architectures Covered Within the Course are as Follows**

**COURSE FEES - RS 20,000**

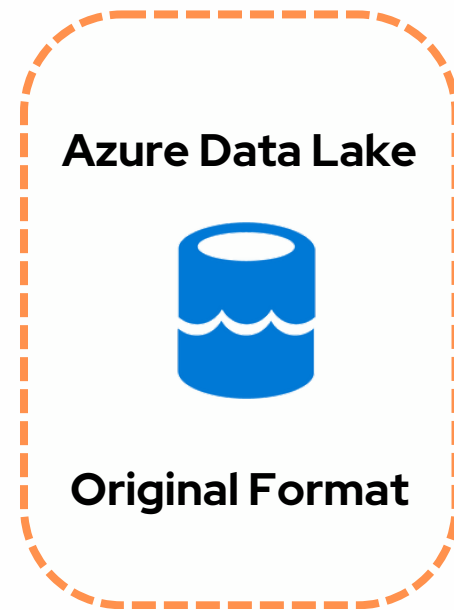
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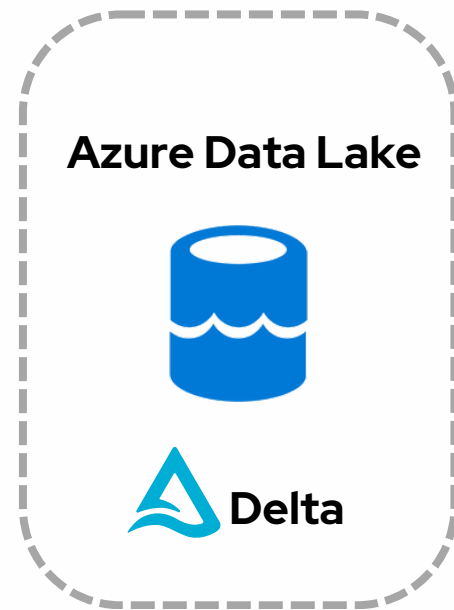
Ingestion with  
Synapse Pipelines

## Lakehouse Storage Layers

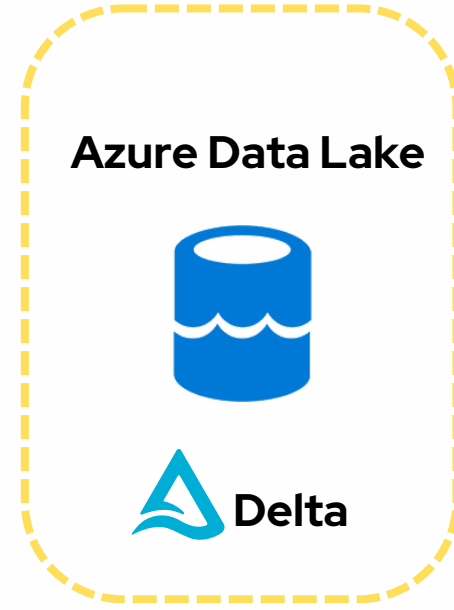
### Bronze



### Silver

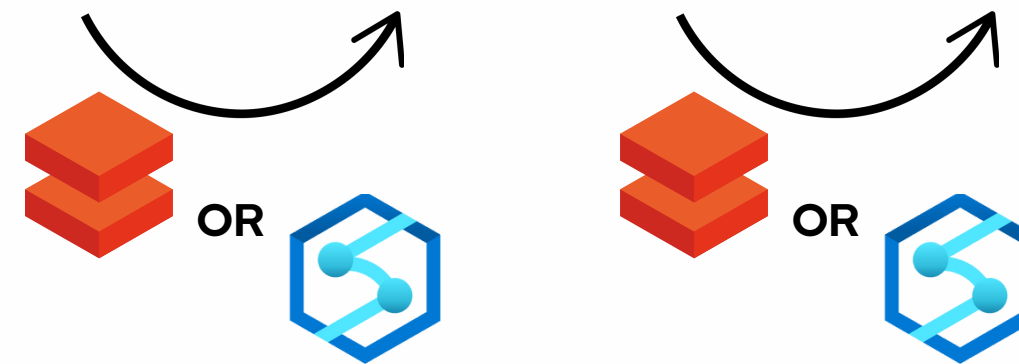
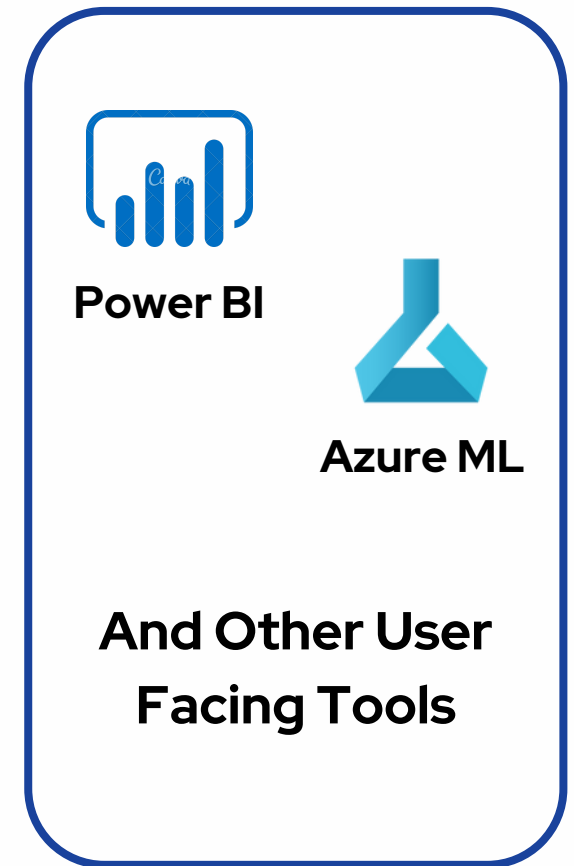


### Gold



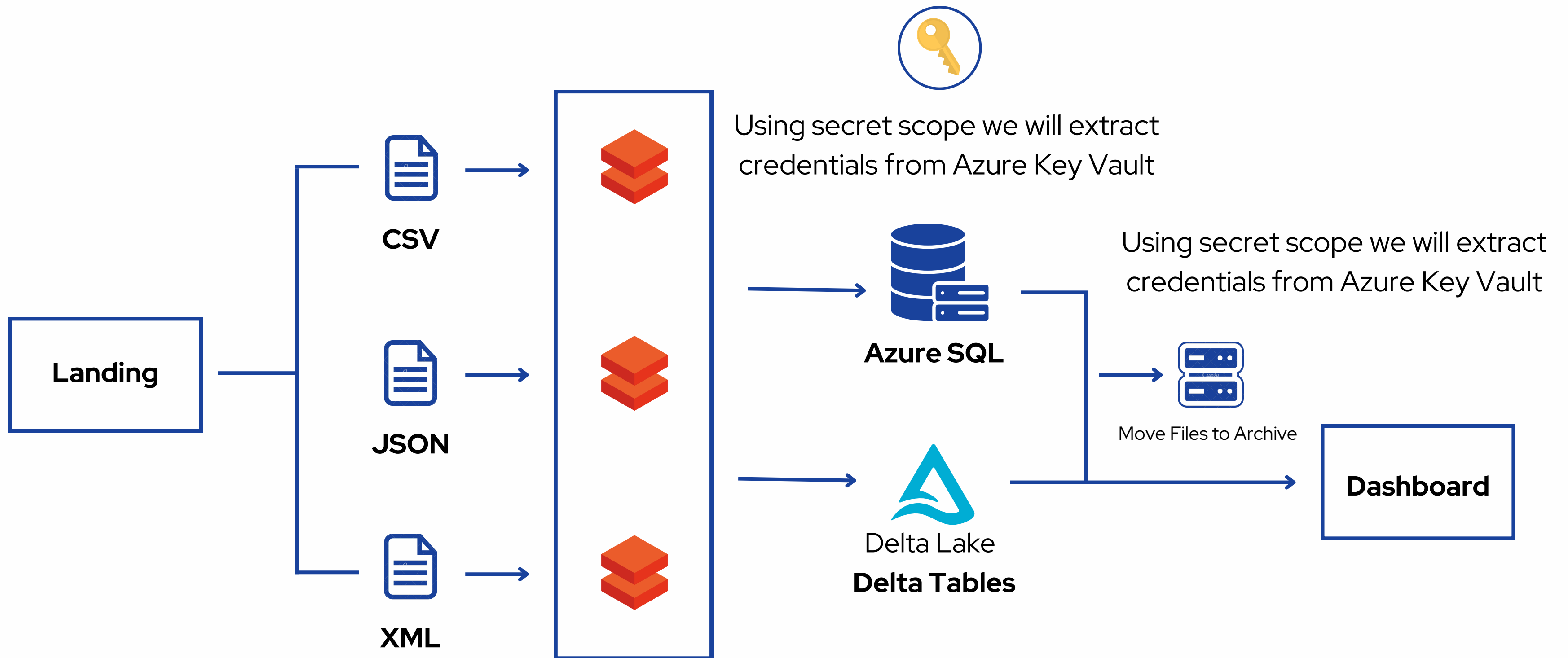
Serverless OR  
Dedicated Pool

## 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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