

**AZURE DATA**

**ENGINEERIN**

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Course Objectives

* Build a foundational understanding of Azure Cloud
* Learn the core Azure Data Engineering services
* Gain hands-on experience with Azure Databricks, Data Factory, and Data Lake
* Develop the ability to implement basic data engineering pipelines on Azure

Course Content

1. **Azure Fundamentals**

* Overview of Azure Cloud
* Role of Azure in Data Engineering
* Introduction to Key Azure Data Services

1. **Azure Data Lake**

* Understanding Data Lakes and their architecture
* Setting up Azure Data Lake Storage (ADLS)
* Data Ingestion into ADLS
* Hands-on Activity: Uploading and organizing data in ADLS

1. **Azure Data Factory**

* Overview of Azure Data Factory (ADF)
* Building Pipelines and Dataflows
* Debugging and Monitoring Pipelines
* Integration with ADLS and Databricks
* Hands-on Activity: Building an ETL pipeline using ADF

1. **Azure Databricks**

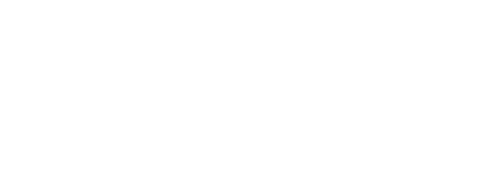
* Introduction to Databricks and its architecture
* Setting up Databricks Workspace
* Working with Notebooks
* Integrating Databricks with ADLS
* PySpark and Spark SQL
* Hands-on Activity: Data Transformation and Writing to ADLS

1. **End-to-End Pipeline Project**

* Combining ADLS, ADF, and Databricks in a single pipeline
* Case Study: Designing and implementing a real-world ETL pipeline
* Deploying and monitoring the pipeline

Course Schedule:

* Course Duration: ~30 Hours (3Hrs per day)



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* Weekends (Saturday & Sunday)
* Total 5 to 6 Weekends

Pre-requisites:

* Basic Python programming experience will be required
* Basic SQL knowledge will be required
* Knowledge of cloud fundamentals will be beneficial, but not necessary
* Azure subscription will be required, if you don't have one, we will create a free account in the course

Instructor:

Bharath B - Data Architect (Certified Azure Data Engineer Associate)

I am full time Senior Data Engineer/Data Architect. I have 13+ years of experience developing and delivering data projects across multiple domains.

**Contact Info:**

Tejaswi – Azure Data Engineer [ 5years of Real-Time Experience]

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