Azure Data Engineering Course

Trainer Profile:

- 20 years of Experience in IT Industry
- Microsoft Azure Certified: **AZ-303 Azure Architect Technologies**
- Microsoft Azure Certified: DP-203 Azure Data Engineer Associate
- Microsoft Azure Certified: DP-900 Azure Data Fundamentals
- Microsoft Azure Certified: AZ-900 Azure Fundamentals
- Certified **Data Science Orientation** from IBM Big Data University
- Delivered Training to **300+ candidates** till today with hands on/lab and real time use cases
- Having hands on experience in implementing Enterprise level Data warehouse solutions using Modern Data Technologies

Course Content:

S. No.	Topic	Weeks
1	**Introduction**	Week 1
2	**Azure Fundamentals**	
	IaaS	
	PaaS	
	SaaS	
	Subscription and Accounts	
	Resource Manager	
	Azure Portal & Cloud Shell	
	Managing Costs & Budgets	
3	**Azure Regions and Availability Zones**	Week 2
4	**Networking concepts & Security**	
5	**Azure Virtual Machines**	
6	**Azure Data Lake Storage**	
	Definition	

	Azure Data Lake-Key Components	
	How it stores data?	
	Azure Data Lake Storage Gen2	
	Why Data Lake?	
	Lab: Data Lake Architecture (real time use cases)	
7	**Azure SQL**	Week 3
	Azure SQL DB as service	
	Azure SQL Pools	
	Azure SQL on VM	
	Azure Managed Instance	
	Lab: Real time use case	
8	**Azure Logic Apps**	
	Overview of Logic Apps	
	How to create a Logic App	
	Types of triggers	
	Lab: Real time use case	
9	**Azure Data Factory (ETL/ELT)**	Week 4
	What is ADF?	
	Pipelines	
	Activities	
	Datasets	
	Linked Services	
	Integration Services	
	Triggers	
	Lab: Real time use case (HR use case)	
10	**Azure Synapse Analytics (SQL Datawarehouse)**	
	What is Azure Synapse Analytics?	
	Synapse Architecture	
	Serverless SQL Pools	
	Dedicated SQL Pools	
	Apache Spark Pool	
	Lab	Week 5
11	**Microsoft Fabric**	
	What is Microsoft Fabric?	
	Workspace setup	
	Lakehouse	
	Data warehousing in Microsoft Fabric	

	Lab	
12	**Azure Databricks**	Week 6
	What is Azure Databricks?	
	Workspace	
	Spark Overview	
	Databricks Architecture	
	Databricks Data Science & Engineering	
	Lab	
13	**Datawarehouse core concepts**	Week 7
	Slowly Changing Dimensions (SCD & types)	
	Data modelling (Star & Snowflake Schemas)	
	Facts	
	Dimensions	
14	**Hands on with real time use case from End-to-End implementation:**	
	DWH for HR Use case	
	Sales Analytics and build dashboard	
	Mock Interviews	