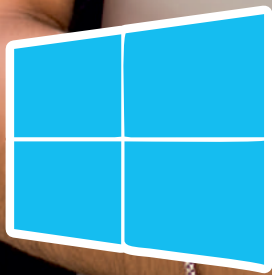


CELEBRATING
14 YEARS

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Azure

Cloud Data Engineer

Introduction to Big Data

- ⇒ Introduction
- ⇒ What is Data?
- ⇒ What is Database?
- ⇒ What is Big-Data?
- ⇒ What are the challenges of Big Data?
- ⇒ Why Traditional Databases Doesn't handle Bigdata.
- ⇒ Characteristics of Big-Data
- ⇒ Variety, Velocity, Volume, Veracity, Value
- ⇒ Types of Data
 - a. Structured Data
 - b. Semi-structured Data
 - c. Unstructured Data

Introduction to Hadoop

- ⇒ What is Hadoop?
- ⇒ How Hadoop overcome bigdata challenges
- ⇒ Hadoop Architecture
- ⇒ Hadoop Daemons
- ⇒ HDFS
- ⇒ YARN
- ⇒ MapReduce

Introduction to Spark

- ⇒ Spark Features.
- ⇒ Spark internals
- ⇒ Spark RDD
- ⇒ Spark Data Frame.
- ⇒ Spark Architecture.
- ⇒ Other Spark Internals

Azure Data Factory

- ⇒ What is Azure Data Factory?
- ⇒ Azure Data Factory Architecture
- ⇒ Top-level concepts
- ⇒ Pipelines
- ⇒ Activities
- ⇒ Linked services
- ⇒ Datasets
- ⇒ Triggers
- ⇒ Data Flows
- ⇒ Integration Runtimes
- ⇒ Parameters / Pipeline Parameters
- ⇒ What is a Linked Service?

- ⇒ Create a Linked Service for –
 - a. BLOB
 - b. SQL Database
 - c. SQL Server
 - d. Data Lake Storage Gen1
 - e. Azure Data Lake Storage Gen2 etc
- ⇒ Parameters / Linked Service Parameterization
- ⇒ Activities
 - a. Copy Activity
 - b. Note Book Activity
 - c. Azure Function
 - d. Lookup activity
 - e. Stored procedure activity
 - f. Get metadata Activity
- ⇒ Delete Activity
- ⇒ Iteration & Conditionals
 - a. Filter
 - b. ForEach
 - c. If Condition
 - d. Switch
 - e. Until
- ⇒ Triggers
 - a. Types of triggers.

Databricks With Py-Spark.

STUDENT TRANSFORMATION STAGES



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