



Jaya Maruthi Technologies Pvt.Ltd.

Data Engineer Course

Transform your career into a Data Engineer



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Job Placement
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"Coding Made
Fun Like a Game!"



100% Job
Oriented
Curriculum



Industry Expert
Trainers with 20+
Years of Experience

Duration
2 Months

Total Classes
60

Our Success Story

₹9-18L

Average Salary Package Per Annum

2000+

Students Trained Successfully

100+

Students Placed with 16L+ Salaries

**"Transform Your Coding Passion into a Career
Become a Skilled Data Engineer with Us"**

Weekday & Weekend Batches | Hands-On Training with Expert Mentors



AWS Data Engineer

- Introduction of AWS
- Dev Environment
- Basic AWS services
- AWS S3
- spark Architecture
- spark concepts
- OLTP & OLAP
- RDD & DATAFRAME
- Transformation in spark
- AWS Glue
- Boto3
- ETL
- Workflow
- spark complex datatypes
- spark UI and partition



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MERN FSD

.NET FSD

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SAS, CDM, Medical Coding

Corporate Office

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- spark optimization
- DATA SKEW
- Apache Iceberg
- SCD Type
- AWS Lambda
- SFTP
- Step function
- SCM
- AWS kinesis
- snowflake json tasks
- Airflow



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Azure Databricks

1) Introduction to BigData

What is Data?

What is Database?

What is BigData?

What are the challenges of BigData?

Why Traditional Databases Doesn't handle Bigdata

2) Introduction to Hadoop

What is Hadoop?

How Hadoop overcome bigdata challenges

Hadoop Architecture

Hadoop Daemons

HDFS

YARN

MapReduce

3) Introduction to Spark

Spark Architecture

Spark Architecture

Spark internals

Spark RDD

Spark DataFrame

Spark Streaming



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4) Introduction To Databricks

What is Databricks?

Databricks Architecture

Working in Databricks workspace

Workign with Databricks notebook

5) Working with Databricks FileSystem – DBFS

What is DBFS?

DBFS commands – mkdirs , cp , mv , head, put, rm , rmdir

How to handle multiple files in DBFS

How to process the files in DBFS

How to archive the files in DBFS

6) Databricks -Spark Core

RDD Programming

Operations on RDD

Transformations- Narrow

Transformations -Wide

Actions

Loading Data and Saving Data

Key Value Pair RDD

Broadcast variables

7) Databricks – Spark-SQL- DataFrames

Creating Data Frames



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DataFrames internal execution

Transformations using DataFrame API

Actions using DataFrame API

User-defined functions in Spark SQL

8) Databricks- Handle multiple file formats

CSV Data

JSON Data

parquet files

Excel files

ORC file format

9) Databricks utilities

credentials utility

FileSystem utility

Notebook utility

secrets utility

widgets utility

10) Databricks Cluster Management

11) Databricks – Batch Processing

12) Introduction to Azure

13) Databricks Integration



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Azure Data Factory

1) Azure Data Factory

What is Azure Data Factory?

Azure Data Factory Architecture

Azure Data Factory Portal UI

Top-level concepts

Pipelines

Activities

Linked services

Datasets

Triggers

Data Flows

Integration Runtimes

2) Pipeline

What is a Pipeline?

Create a new pipeline

Organize pipelines into folders

Debug pipeline

Publish pipeline

Parameters / Pipeline Parameters

3) Linked Service

What is a Linked Service?

Create a Linked Service for –



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BLOB

SQL Database

SQL Server

Data Lake Storage Gen1

Azure Data Lake Storage Gen2 etc

Parameters / Linked Service Parameterization

4) DataSets

What is a Data Set?

Create a Data Set for –

**Avro, Binary, CSV, Excel, JSON, ORC, Parquet, XML in
BLOB/ADLS Gen1/ADLS Gen2.**

**Table in SQL Database, SQL Server, Oracle Database
etc**

Parameters / Data Set Parameterization

5) Activities

Wait

Variables

Create a variable

Set variable

Append variable

Copy Data

General

Source

Sink

Mapping



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Settings

User Properties

Copy file(s) from one BLOB Container to another
Container

One file from a folder

All files from a folder

All files and folders recursively from a folder

Copy data / file from BLOB to SQL Database / ADLS

Gen2

As CSV, TSV, Parquet, Avro, ORC etc.

Data bricks Notebook

Azure Function

Lookup, Stored Procedure

Get Metadata, Delete

Execute Pipeline

Validation, Fail

Iteration & Conditionals

Filter

For Each

If Condition

Switch

Until

6) What is a Trigger?

Types

Schedule

Tumbling window

Storage Events



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Triggers with Parameters

7) Integration Runtime (IR)

Azure Auto Resolve Integration Runtime

Azure Managed Virtual Network

Self-Hosted

Linked Self-Hosted

8) Source control

Git configuration

ARM Template

Export / Import



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Snowflake

Module 1 - Modern Data Architecture Introduction

- Data Architecture Overview
- Warehousing Fundamentals
- Modern Data Stack
- DBT Overview: Introduction, Market Share, Competitors, and Architecture Overview

Module 2 - Getting Started with dbt

- Installation & Setup of the tools & environment (dbt, python, snowflake)
- Interface Walkthrough of dbt
- dbt concepts - Models, project setup, and materializations
- Creating the dbt data models
- SQL queries for dbt - DQL Commands
- Creating Low Code SQL ETL Pipeline using dbt

Module 3 - Advanced Concepts

- dbt advance concepts - snapshots, hooks
- dbt data loading techniques - full load vs incremental load
- dbt templating using jinja



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- Creating Row Level Security in dbt
- Orchestrating dbt pipelines
- CI/CD of dbt pipelines with Github
- dbt Best practices

Module 4 - Versioning, Documentation & Deployment

- dbt version control
- dbt governance of data models
- dbt testing of data models
- dbt documentation



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