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Leading Marketplace for IT and Certification Courses

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SPARK DEVELOPMENT TRAINING

◆ 1:1 Instructor-led Online Training ◆



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COURSE DETAILS & CURRICULUM

Prerequisite: SCALA for Spark

Scala Basics

- What is Scala?
- Why Scala for Spark?
- Intro to Scala REPL : Journey from Java to Scala
- Installing Scala IDE
- Basic Operations
- Defining Functions

Scala Essentials

- Control Structures in Scala
- loops – ForEach, While, Do-While
- Collections – Array, ArrayBuffer, Map, Tuples, Lists
- If Statements
- Conditional Operators
- Enumerations

OOP's and FP

- Class and Object Basics



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- Scala Constructors
- Nested Classes
- Visibility Rules
- Overriding Methods
- Functional Programming
- Higher Order Functions
- Traits
- Interfaces
- Layered Traits

Prerequisite: BigData and Hadoop Framework

- Introduction to BigData
- Challenges with Bigdata
- Batch Vs. Realtime processing
- Overview- Hadoop Ecosystem
- HDFS
- Review of MapReduce
- Hive
- Sqoop
- Flume

APACHE SPARK

Introduction to Spark

- What is Spark?
- Spark Overview
- Setting up environment
- Using Spark Shell
- Spark Web UI

Spark Basics

- RDD's
- Spark Context
- Spark Ecosystem
- In-Memory data – Spark

Working with RDD's

- Creating, Loading and Saving RDD
- Transformations in RDD
- Actions in RDD
- Key-Value Pair RDD
- MapReduce and Pair RDD operations



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→ RDD Partitions

Writing and Deploying Spark Applications

- Spark Applications vs. Spark Shell
- Creating Spark Context
- Building a Spark Application
- Running a Spark Application
- Spark and Hadoop Integration-HDFS
- Handling Sequence Files

Spark RDD

- RDD Lineage
- RDD Persistence Overview
- Distributed Persistence

Spark Streaming

- Spark Streaming Architecture
- First Spark Streaming Programming
- Transformations in Spark Streaming

Spark MLlib

1. What is Machine Learning?
2. ML library for Spark
3. Algorithms
 - Statistics
 - Classification
 - Regression
 - Clustering
 - Collaborative Filtering

Spark SQL

- Overview on Hive
- Spark SQL Architecture
- SQLContext in Spark SQL
- Working with DataFrames
- Example for Spark SQL
- Integrating Hive and Spark SQL
- DataFrames and RDD's
- Knowing JSON and Parquet File Formats
- Loading of data
- Comparing Spark SQL, Impala and Hive-on-Spark



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GraphX

- Overview of GraphX
- Data Visualisation in Spark
- Common Spark use-cases

Performance Tuning

- Shared Variables: Broadcast Variables
- Shared Variables: Accumulators
- Common Performance Issues
- Performance tuning tips

Course Deliverables

- Workshop style coaching
- Interactive approach
- Course material
- POC Implementation
- Hands on practice exercises for each topic
- Quiz at the end of each major topic
- Tips and techniques on Cloudera Certification Examination
- Linux concepts and basic commands
- On Demand Services
- Mock interviews for each individual will be conducted on need basis
- SQL basics on need basis
- Resume preparation and guidance
- Interview questions

☞ Interested to learn? Get in touch with us

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