



Online Training in Cloud Lab



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Spark Databox is known to be a pre-eminent platform for software certificate training and career development. Through our mission, we are a pioneer or positive change, improve productivity, increase the workforce, and creating a career opportunity for everyone. We are India's #1 software training institute. Apart from receiving excellent live training you will also receive free self-paced video courses, training materials, placement support, mock interviews and many more.

Program Key Features

- ❖ 100% Practical training
- ❖ Experienced Trainers
- ❖ 100% Placement assistance
- ❖ Small batch size
- ❖ Customized training content
- ❖ Real-time project training
- ❖ Fully equipped cloud lab
- ❖ 100% Customer support
- ❖ 100% Money back guarantee

About Course:

The best **Apache Spark online training** course is here. Our expert trainers at Spark Databox are here ready to guide you and launch your career. Learning Apache spark with Scala is the best choice to begin your Apache spark career. Apart from getting world class training, you will also receive free training videos, free Apache Spark tutorials, and certification materials.

This course gives an inclusive understanding of the Apache Spark platform which is an advanced processing engine, Scala programming language, and Big Data Hadoop platform. We have customized experience for all learners so that they can learn apache spark with Scala. The Apache Spark online training course stays relevant in the current industry setting along with ease of learning. You will be provided a lot of free Apache Spark tutorials, Apache Spark training videos.

Contents

Section 1: SCALA - Introduction to functional programming

- Getting started with SCALA
- SCALA Basics
- REPL
- Variables
- Expressions
- Functions
- Run a sample program
- Type lattices and inferences
- How to access Spark Databox cloud lab?
- Step by Step instruction to access cloud Big data Lab.

Section 2: SCALA environment setup

- Windows and UNIX setup

Section 3: Functional Programming

- Functional programming - introduction
- Sample program
- OOPS - concepts

- FPP - concepts
- Difference between OOPS and FPP

Section 4: Collections

- Mapping
- Iterations
- Filtering
- Counting
- Regular expressions
- Maps, Sets, group By, Options, flatten, flat Map
- Word count, IO operations, file access, flatMap

Section 5: Object-Oriented Programming

- Classes and Properties
- Objects, Packaging, and Imports
- Traits Objects, classes, inheritance, Lists with multiple related types, apply
- Exceptions handling
- Exception keywords

Section 6: Integrations

- SBT - introduction
- Integrating SCALA with Eclipse IDE
- Integrating SBT with Eclipse

Section 7: CORE SPARKS

- Batch vs real-time data processing
- Sparks - introduction
- Spark versus Hadoop
- Spark - Architecture
- programming Spark with Scala
- Creating Spark context using Spark shell
- RDD programming
- Operations in RDD
- Transformations
- Actions
- Loading and saving data
- RDD - key value pair
- Broadcast variables

Section 8: Persistence

- Configuring and running Spark cluster
- Multi-Node Spark Cluster
- Managing Spark Cluster
- Running Spark jobs and running in the cluster mode
- Spark application development using eclipse
- Performance tuning and debugging Spark application

Section 9: NoSQL Database

- Introduction
- What is Cassandra? - Introduction
- Cassandra Architecture
- Installing and communicating with Cassandra
- Create a table in Cassandra
- Insert data
- Model data
- Develop an application in web
- Updating and Deleting data

Section 10: Spark Integration with Cassandra and Amazon EC2

- Spark and Cassandra Connectors - Introduction
- Spark and Cassandra connection setup
- Create Spark RDD in Cassandra
- Transformation and Actions on the Cassandra RDD
- Access data in Cassandra via Spark using eclipse
- AWS - Amazon Web Services introduction
- Building Spark Multi-Node Cluster in Amazon Web Services
- Production deployment using Mesos and YARN

Section 11: Spark Streaming

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- Spark streaming - Architecture
- Distributed Log Files in Real Time processing
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- Transformations and Actions on Streaming Data
- Flume and Kafka integration
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Section 12: Spark SQL

- Apache Spark SQL - Introduction
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- Importing and saving data
- Text files, JSON and Parquet Files processing
- DataFrames
- User-defined functions
- What is HIVE? - Introduction
- Local Hive Metastore server

Section 13: Machine Learning Library

- Machine Learning - Introduction
- Machine Learning - Types
- Apache Spark MLlib Algorithms - Introduction
- Working with MLlib and datatypes
- Regression and Classification Algorithms
- A deep dive into Decision Trees
- Classification with SVM, Naive Bayes
- Clustering with K-Means
- Building the Spark server

Section 14: Real-time project

- Apache Spark project environment setup
- Real-time Apache Spark project
- Project demonstration
- Expert evaluation and feedback

You made it!!

Post completion of Apache Spark Online Course, a proper orientation for placements is done. With this training from experienced trainers, as professionals, you will be equipped with different proficiencies. This is a chance to open up and widen your prospects.

- Spark Databox Apache Spark course certification
- Interview preparation
- Mock interviews
- Resume preparation
- Knowledge sharing with industry experts
- Counseling to guide you to a right path in Apache Spark development career



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