

Apache Spark Course Content

I. Basics of Functional Programming

II. Scala -

- III. Data Types
- IV. Classes
- V. Objects
- VI. Operators
- VII. Loops
- VIII. Functions and Closures
- IX. Collections
- X. Exception Handling
- XI. Practice example programs in scala

XII. Spark -

- XIII. Problems with Hadoop Map Reduce
- XIV. Apache Spark - Solution to these Big data challenges
- XV. Spark installation
- XVI. Understand the Apache Spark architecture
- XVII. Spark RDDs – Transformation, Action, Load
- XVIII. Mechanisms to handle in-memory data efficiently
- XIX. Concepts of Spark stream analytics
- XX. Spark streaming APIs for streaming of data
- XXI. GraphX APIs to implement graph algorithms (if time permits)
- XXII. Spark project to get hands-on experience