

# APACHE SPARK COURSE CONTENT

## Introduction to Spark and Hadoop platform

- ✚ What is Hadoop platform
- ✚ Why Hadoop platform
- ✚ What is Spark
- ✚ Why spark
- ✚ Evolution of Spark

## Introduction to Scala

- ✚ Functional Programing Vs Object Orient Programing
- ✚ Scalable language
- ✚ Scala Overview

## SPARK Environment

- ✚ Configuring Apache Spark

## SCALA Environment

- ✚ JAVA Setup
- ✚ SCALA Editor
- ✚ Interpreter
- ✚ compiler

## Deep Dive into Scala

- ✚ Benefits of Scala
- ✚ Language Offerings

- ✚ Type inferencing
- ✚ Variables
- ✚ Functions
- ✚ LOOPS
- ✚ Control Structures
- ✚ Vals
- ✚ Arrays
- ✚ Lists
- ✚ Tuples
- ✚ Sets
- ✚ Maps
- ✚ Traits and Mixins
- ✚ Classes and Objects
- ✚ First class functions
- ✚ Clousers
- ✚ Inheritance
- ✚ Sub classes
- ✚ Case Classes
- ✚ Modules
- ✚ Pattern Matching
- ✚ Exception Handling
- ✚ FILE Operations

## **Deep Dive into Spark**

- ✚ Spark Shell

- ✚ Parallel Programming

- ✚ context

- ✚ RDD

- ✚ Transformations

- ✚ Programming with RDD

- ✚ Actions

- ✚ Broadcast Variables

- ✚ Accumulators

## **Spark Eco-System**

- ✚ Spark Streaming

- ✚ MLlib

- ✚ GraphX

- ✚ Spark SQL

## **Submitting Spark jobs on Hadoop cluster**

## **Projects and Use Cases**

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