



BIGDATA-104

Scala for Data Engineers

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OVERVIEW

Skill Level : Intermediate

Suitable for : Scala is suitable for a diverse group of people; thanks to its versatile nature and the range of domains it covers. This includes software engineers, developers, researchers and more.

Duration : 5 Days

Scala is a powerful and expressive programming language that seamlessly blends object-oriented and functional programming paradigms. It is particularly well-suited for data engineering tasks, notably within the Apache Spark ecosystem.

PREREQUISITES

- JAVA-101 – Java Fundamentals

LEARNING OUTCOMES

- By studying Scala, you'll strengthen your grasp of object-oriented principles like classes, objects, inheritance, and encapsulation.
- Scala's support for concurrency and parallelism, including actors and the Akka toolkit, will enable you to develop applications that efficiently handle multiple tasks simultaneously.
- Scala can be used for building web applications using frameworks like Play Framework. You'll learn how to create web APIs and manage asynchronous programming.

COURSE OUTLINE

Day 1

- Introduction to Scala
- Scala vs X
- SBT
- Language
 - Lexical Syntax
 - Identifiers, Names and Scopes
 - Types
 - Declarations and Definitions
 - Control Structures
 - Classes and Objects
 - Collections
- Working Group Formation

Day 2

- Case Classes
- Expressions
- Implicits
- Pattern matching
- Top Level Definitions
- Standard Library

Day 3

- Functional Programming
- JSON and XML Parsing
- JDBC
- HTTP Clients

Day 4-5

- Individual and Group Work
- Sample Application
- Presentations
- Final Exam



Enquiries



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