DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

# Scala With Spark Essential Training

Handle absence and errors safely, use pattern matching and the collections library, and write asynchronous code with Futures.

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|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**2 days · Days 1-2** | SELF-PACED VIDEO<br>**1-year LMS access** |
| BATCH SIZE<br>**Max 10 learners** | NEXT BATCHES<br>**1st of every month · weekends: first Saturday** | CERTIFICATE<br>**Verifiable certificate of completion** |

| Foundation | Essential | Intermediate | Advanced |
|---|---|---|---|
| 1 day · Included | 2 days · This curriculum | 3 days · Next step | 5 days · Later |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 23 topics · Foundation to Essential |
| Hands-on labs | 2 labs |
| Formats and fees | Live, 1:1, self-paced, corporate |
| Trainer and reviews | Rajesh Kumar |
| Enrolment | Batches, payment, contacts |


## WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

**Course page:** www.devopsschool.com/courses/scala/scala-with-spark-essential-training.html
**Talk to us:** WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

# What you will achieve

By the end of the Scala With Spark course path, you will be able to:

1

### Write functional Scala

Write safe, immutable Scala using functions, case classes, pattern matching and collections.

2

### Design robust Scala code

Combine traits, closures, implicits and Futures to build reusable, concurrent libraries.

3

### Process big data with Spark

Build, run and tune Spark applications in Scala on standalone, YARN, EMR and Kubernetes clusters.

WHAT THE ESSENTIAL LEVEL ADDS

### Error handling, pattern matching, collections and futures

**Hands-on:** Build an asynchronous data processor. Parse records into case classes with Option and Either, transform them with collections and pattern matching, and fetch enrichments in parallel with Futures.

WHO SHOULD ATTEND

- Learners who know the basics of Scala With Spark and want to use it confidently every day.
- Professionals taking over Scala With Spark work on a live project.
- Teams agreeing on a common way of working with Scala With Spark.

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Install Scala, use the REPL and IntelliJ IDEA, and write functional Scala with values, functions, classes and case classes.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO ESSENTIAL

# Scala With Spark Essential Training agenda

23 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

## DAY 1 — Foundation: Scala setup, functional basics, functions and classes

Included from Foundation

1. Introduction to Scala: overview, why learn Scala and what you will learn, Scala 2.13 vs Scala 3
2. Installation: JDK, Coursier and the scala command (Scala CLI), sbt, the Scala REPL and IntelliJ IDEA
3. Functional programming concepts: immutability and expressions vs statements
4. Functions in FP: pure and impure functions, referential transparency and higher-order functions
5. First interaction with Scala: REPL, variables and values (var vs val), type inference
6. Control flow: conditionals as expressions and loops with for and while
7. Functions: structure of a function, parameters, return types and anonymous functions
8. Higher-order functions in practice: passing and returning functions
9. Classes: structure of classes, constructors, fields and methods
10. Companion objects: creating objects using apply and factory methods
11. Case classes: equality, copy, toString and immutability by default
12. Standalone programs: launching programs extending App and the @main annotation in Scala 3

## DAY 2 — Essential: Error handling, pattern matching, collections and futures

**New at this level**

13. Null checks and error handling: why null checks are bad and Option as a better alternative
14. Error handling: error handling in imperative languages vs Try and Either in Scala
15. Pattern matching: what it is, match on constants and match on case classes
16. Advanced matches: match on sequences, match on type only and guarding your match
17. Collections: benefits of the Scala collections library, mutable and immutable collections, class hierarchy diagram
18. Core collections: List, Set and Map with examples
19. Collection operations: methods on numeric collections, filtering, size and conversion operations
20. Transforming collections: map, flatMap and for-comprehensions, working with Option and flatMap
21. Concurrency: concurrency and parallelism, Future and ExecutionContext
22. Working with futures: futures transformation, filtering and collecting futures
23. Asynchronous design: other ways to model asynchronous operation and dealing with future failures

PRACTICE

# Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

**Write a functional Scala program**

Set up an sbt project in IntelliJ IDEA, model data with case classes and companion objects, and process it with pure, higher-order functions.

ESSENTIAL

**Build an asynchronous data processor**

Parse records into case classes with Option and Either, transform them with collections and pattern matching, and fetch enrichments in parallel with Futures.

HOW YOU CAN LEARN

## Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

| FORMAT | DURATION | WHAT YOU GET | FEE |
|---|---|---|---|
| **Live & interactive (online)** | Max 8-10 hours | Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month. | **INR 34,999** |
| **1:1 live training (online)** | Max 8-10 hours, one-to-one | The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace. | **INR 99,999** |
| **Self-paced video** | 1-year LMS access | All four Scala With Spark levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 2 days for this level | A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative). | **Quote on request** |

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

## Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

| | |
|---|---|
| **20** years in industry | **200+** corporate trainings |
| **10,000+** engineers mentored | **70+** organisations coached |

REVIEWS

## What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR SCALA WITH SPARK TRAINING

## Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/scala/

**ENROL OR RESERVE A SEAT**
**Scala With Spark Essential Training**

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**Next step after this level: Scala With Spark Intermediate Training** - Combine object-oriented and functional Scala with traits, closures, currying, control abstractions, folds and implicits or givens.