



Certificate no: UC-9fb354fb-9b87-4ef0-ba68-504b098b36b9

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Reference Number: 0004

CERTIFICATE OF COMPLETION

Scala and Spark for Big Data and Machine Learning

Instructors **Jose Portilla, Pierian Training**

Chonthicha Pai-ngam

Date **Nov. 3, 2024**

Length **10 total hours**