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Certificate no: UC-65a90a11-85ec-40d1-97b6-ba897c25b327
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Reference Number: 0004

CERTIFICATE OF COMPLETION

Taming Big Data with Apache Spark and Python - Hands On!

Instructors **Sundog Education by Frank Kane, Frank Kane, Sundog Education Team**

Mustafa Alhamad

Date **March 5, 2024**
Length **7 total hours**