



Certificate no: UC-409123a1-e145-4ea9-995b-68c5f17a3892

Certificate url: ude.my/UC-409123a1-e145-4ea9-995b-68c5f17a3892

Reference Number: 0004

CERTIFICATE OF COMPLETION

Spark and Python for Big Data with PySpark

Instructors **Jose Portilla**

Karthikeyan

Date **Sept. 30, 2023**

Length **10.5 total hours**