



Certificate no: UC-2f1f8698-2efa-44d0-a6e1-8588e41707cf

Certificate url: ude.my/UC-2f1f8698-2efa-44d0-a6e1-8588e41707cf

Reference Number: 0004

CERTIFICATE OF COMPLETION

Apache Spark 3 - Spark Programming in Python for Beginners

Instructors **Prashant Kumar Pandey, Learning Journal**

Jonathan Murmu

Date **Nov. 30, 2022**

Length **6.5 total hours**