



Certificate no: UC-cc948fd0-ff82-4b44-9a3d-bb96122ab93d

Certificate url: ude.my/UC-cc948fd0-ff82-4b44-9a3d-bb96122ab93d

Reference Number: 0004

CERTIFICATE OF COMPLETION

Apache Spark 3 - Spark Programming in Python for Beginners

Instructors **Prashant Kumar Pandey, Learning Journal**

Vinay Kumar Mamidi

Date **Jan. 31, 2023**

Length **9 total hours**