



Certificate no: UC-fe8384c5-9d99-4a72-aa3b-787eff8019ae

Certificate url: ude.my/UC-fe8384c5-9d99-4a72-aa3b-787eff8019ae

Reference Number: 0004

CERTIFICATE OF COMPLETION

Apache Spark 3 - Spark Programming in Python for Beginners

Instructors **Prashant Kumar Pandey, Learning Journal**

Xiaowei Zhang

Date **Sept. 2, 2023**

Length **9 total hours**