



Nov 29, 2024

Charles Bushman

has successfully completed

Introduction to Big Data with Spark and Hadoop

an online non-credit course authorized by IBM and offered through Coursera

Three handwritten signatures in black ink, positioned above a dotted line.

Aije Egwaikhide
Romeo Kienzler
Rav Ahuja

COURSE
CERTIFICATE



Verify at:
<https://coursera.org/verify/J6QYEIHF1XJ4>

Coursera has confirmed the identity of this individual and
their participation in the course.