

Feb 9, 2020

PATRICK MICHL

has successfully completed

Scalable Machine Learning on Big Data using Apache Spark

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

COURSE CERTIFICATE



Romeo Kienzler Chief Data Scientist IBM Watson IoT

Verify at coursera.org/verify/B9YQCH798SRQ

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