



Jan 29, 2021

Sergey Shkarin

has successfully completed

Scalable Machine Learning on Big Data using Apache Spark

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

A handwritten signature in blue ink, appearing to read "R. Kienzler".

Romeo Kienzler
Chief Data Scientist
IBM Watson IoT

COURSE CERTIFICATE



Verify at coursera.org/verify/2NX7N837EVAM

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