



May 5, 2025

Ercan Tayfun

has successfully completed

Machine Learning with Apache Spark

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

Rav Ahuja
Global Program Director
IBM Skills Network

Ramesh Sannareddy
Data Engineering Subject Matter Expert
Skill-up Technologies

**COURSE
CERTIFICATE**



Verify at:
<https://coursera.org/verify/FZVBMA8K2U8X>

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