



Dec 5, 2025

Ali Madfoune

has successfully completed

Exploratory Data Analysis for Machine Learning

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

Joseph Santarcangelo
Senior Data Scientist
IBM

Svitlana Kramar
Data Science Content Developer
Skills Network

COURSE CERTIFICATE



Verify at:
<https://coursera.org/verify/9P1M3XMMQCIG>

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