



Sep 22, 2023

Ghufran Barcha

has successfully completed

Machine Learning with Python

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

Two handwritten signatures in black ink. The first signature is "Saeed A." and the second is "J. Santarcangelo".

Saeed Aghabozorgi
Sr. Data Scientist
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Joseph Santarcangelo
Senior Data Scientist
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Coursera has confirmed the identity of this individual and their participation in the course.