



Mar 17, 2024

Siham Kalach

has successfully completed

Python for Data Science, AI & Development

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

A handwritten signature in black ink, reading "Joseph Santarcangelo".

Joseph Santarcangelo
Senior Data Scientist
IBM

COURSE CERTIFICATE



Verify at:

<https://coursera.org/verify/ASMZMWT2BBXS>

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