



Jan 2, 2024

ZAKARIAE YAHYA

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/L6C4P39PTHJG>

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