



Dec 26, 2023

**MD ASHRAF**

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/8N4K7QAV7NQB>

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