



Nov 26, 2022

vignesh madala

has successfully completed

Python for Data Science, AI & Development

an online non-credit course authorized by IBM Skills Network 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/M22CWCQM2LB>

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