



03/19/2020

Mark Russel Calatrava Miranda

has successfully completed

Python for Data Science and AI

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 [coursera.org/verify/9KFPYKDGL99L](https://coursera.org/verify/9KFPYKDGL99L)  
Coursera has confirmed the identity of this individual and  
their participation in the course.