



03/26/2020

Ensen Xie

has successfully completed

Data Analysis with Python

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

A handwritten signature in black ink, reading "J. Santarcangelo", with a long horizontal flourish extending to the right.

Joseph Santarcangelo
Senior Data Scientist
IBM

COURSE
CERTIFICATE



Verify at coursera.org/verify/PD8HSDS4M4CH

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