



May 6, 2022

SHIVANI SWARNKAR

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 "Joseph Santarcangelo".

Joseph Santarcangelo  
Senior Data Scientist  
IBM

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