



Jun 23, 2023

**Michael Xie**

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