



Nov 23, 2025

# Hannah Jacob

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 CERTIFICATE



Verify at:  
<https://coursera.org/verify/TD3WN0ZCGRVU>

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