



Aug 10, 2021

# SUBRAMANI KARUPPAGOUNDER

has successfully completed

## Python for Data Science, AI & Development

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

A handwritten signature in black ink, reading "J. Santarcangelo".

Joseph Santarcangelo  
Senior Data Scientist  
IBM

## COURSE CERTIFICATE



Verify at:

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