



Aug 10, 2023

**Luis Alvarado Murillo**

has successfully completed with honors

**Deep Neural Networks with PyTorch**

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**

WITH HONORS



Verify at:  
<https://coursera.org/verify/8LF9M29NUJR3>

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