

# VERIFIED

CERTIFICATE *of* ACHIEVEMENT



A handwritten signature in black ink, appearing to read "J. Santarcangelo".

Joseph Santarcangelo

Data Scientist

*IBM Developer Skills Network*

This is to certify that

**pankaj singh chamyal**

successfully completed and received a passing grade in

**DL0110EN: Deep Learning with Python and PyTorch**

a course of study offered by IBM, an online learning initiative of IBM.



VERIFIED CERTIFICATE  
Issued June 30, 2020

VALID CERTIFICATE ID  
**3b86df7d62b345169f5dd95b1ea9be05**