

# 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

**Thomas Trembl**

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 through edX.



VERIFIED CERTIFICATE  
Issued February 10, 2019

VALID CERTIFICATE ID  
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