

# VERIFIED

CERTIFICATE *of* ACHIEVEMENT



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

Joseph Santarcangelo

Data Scientist

IBM

This is to certify that

**Leonel Cruz**

successfully completed and received a passing grade in

**PY0101EN: Python 101 for Data Science**

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



VERIFIED CERTIFICATE  
Issued December 2, 2018

VALID CERTIFICATE ID  
[1e60931ea4db486fac178c7a416f111e](#)