

# VERIFIED

CERTIFICATE *of* ACHIEVEMENT



This is to certify that

**Ryan Alexander Berberian**

successfully completed and received a passing grade in

**DAT275x: Principles of Machine Learning:  
Python Edition**

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

A handwritten signature in black ink, appearing to read "Satya Nadella".

**Satya Nadella**

Chief Executive Officer

*Microsoft Corporation*

A handwritten signature in black ink, appearing to read "Karen Kocher".

**Karen Kocher**

General Manager

21st Century Jobs, Skills and Employability

*Microsoft Corporation*



VERIFIED CERTIFICATE  
Issued August 15, 2019

VALID CERTIFICATE ID

**d18f011116b14bd79a4460c28c69971a**