VERIFIED
CERTIFICATE *of* ACHIEVEMENT

ColumbiaX

John Paisley
Assistant Professor of Electrical Engineering
Department of Electrical Engineering
Columbia University

This is to certify that

vagner antonio da silva

successfully completed and received a passing grade in

CSMM.102x: Machine Learning

a course of study offered by ColumbiaX, an online learning initiative of Columbia University.

edX

VERIFIED CERTIFICATE
Issued 20 de mayo de 2019

VALID CERTIFICATE ID
3518df139b014ceb8114ecb2dd54dd39