HONOR CODE CERTIFICATE



Kathy McKeown

Director of the Data Science Institute Henry and Gertrude Rothschild Professor of Computer Science *Columbia University*

> Patricia Culligan Associate Director of the Data Science Institute Professor of Civil Engineering

> > Columbia University

Garud Iyengar

Professor of Industrial Engineering and Operations Research, Chair of the Department

Columbia University

This is to certify that

Thomas Lutz

successfully completed and received a passing grade in

DS102X: Machine Learning for Data Science and Analytics

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



HONOR CODE CERTIFICATE lssued March 4, 2016 VALID CERTIFICATE ID b99c811c05f045f69a5b361cc74be5e3