

Verified Certificate

ColumbiaX

This is to certify that

Muthuram

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.



Verified Certificate
Issued June 30, 2021

Valid Certificate ID
[b6dd2ca46adb43e487816cf1a9c9da92](https://courses.edx.org/certificates/b6dd2ca46adb43e487816cf1a9c9da92)

A handwritten signature in blue ink, appearing to read 'Kathy McKeown'.

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

A handwritten signature in blue ink, appearing to read 'P. Culligan'.

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

A handwritten signature in blue ink, appearing to read 'Garud Iyengar'.

Garud Iyengar
Professor of Industrial Engineering and
Operations Research, Chair of the Department
Columbia University