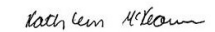


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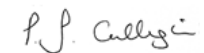


Kathy McKeown

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

**Sukhbir Singh Virdi**

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.



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Issued April 4, 2023

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