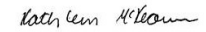


# Verified Certificate

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Director of the Data Science Institute  
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**Patricia Culligan**

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*Columbia University*



**Garud Iyengar**

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

This is to certify that

**Mohammed Obidou**

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 July 8, 2021

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