

# Verified Certificate

# ColumbiaX

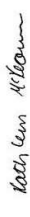
This is to certify that

**Ермагамбет Расул Бахбергеноулы**

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.



**Kathy McKeown**

Director of the Data Science Institute  
Henry and Gertrude Rothschild Professor of Computer Science  
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**Patricia Culligan**

Associate Director of the Data Science Institute  
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**Verified Certificate**

Issued December 21, 2021

**Valid Certificate ID**

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