



# CERTIFICATE *of* ACHIEVEMENT



A handwritten signature in black ink, appearing to be 'Dimitris Bertsimas'.

**Dimitris Bertsimas**

Boeing Leaders for Global Operations Professor of  
Management, Operations Research and Statistics  
Co-Director of the Operations Research Center  
*MIT Sloan School of Management*

A handwritten signature in black ink, appearing to be 'Sanjay Sarma'.

**Sanjay Sarma**

Dean of Digital Learning  
*Massachusetts Institute of Technology*

This is to certify that

**James Saul Karanu Gathogo**

successfully completed and received a passing grade in

**15.071x: The Analytics Edge**

a course of study offered by MITx, an online learning  
initiative of The Massachusetts Institute of Technology through edX.

VERIFIED CERTIFICATE  
Issued September 01, 2015

Verify the authenticity of this certificate at  
<https://verify.edx.org/cert/1220f853919c4a0ba109c6cdb0632ea6>