



# CERTIFICATE *of* ACHIEVEMENT



A handwritten signature in black ink, appearing to read 'Ameet Talwalkar'.

**Ameet Talwalkar**

Assistant Professor of Computer Science  
*University of California, Los Angeles*

Visiting Assistant Professor  
Department of Electrical Engineering  
and Computer Science  
*University of California, Berkeley*

Technical Advisor  
*Databricks*

This is to certify that

## Joel Lowery

successfully completed and received a passing grade in

## CS190.1x: Scalable Machine Learning

a course of study offered by BerkeleyX, an online learning  
initiative of The University of California, Berkeley through edX.

VERIFIED CERTIFICATE  
Issued August 06, 2015

Verify the authenticity of this certificate at  
<https://verify.edx.org/cert/671d5cfd27f94898a7129fd777cae956>