



# CERTIFICATE *of* ACHIEVEMENT



**Berkeley**

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This is to certify that

**Hassan Hamzehlouei Monfared**

successfully completed and received a passing grade in

**CS100.1x: Introduction to Big Data with Apache Spark**

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

VERIFIED CERTIFICATE  
Issued July 10, 2015

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