

VERIFIED

CERTIFICATE *of* ACHIEVEMENT

UC San Diego

This is to certify that

Edward Amankwah

successfully completed and received a passing grade in

DSE230x: Big Data Analytics using Spark

a course of study offered by UCSanDiegoX, an online learning initiative of UC San Diego through edX.

Yoav Freund

Yoav Freund

Professor, Computer Science and Engineering

UC San Diego



VERIFIED CERTIFICATE
Issued August 23, 2018

VALID CERTIFICATE ID
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