



12/15/2017

Taha Hussein Mamdouh

has successfully completed

Introduction to Big Data

an online non-credit course authorized by University of California, San Diego and
offered through Coursera

A handwritten signature in black ink, appearing to read "Ilkay Altintas".

Ilkay Altintas
Chief Data Science Officer
San Diego Supercomputer Center

A handwritten signature in black ink, appearing to read "Amarnath Gupta".

Amarnath Gupta
Research Scientist
San Diego Supercomputer Center

COURSE
CERTIFICATE



Verify at coursera.org/verify/CTG3KT6M5EKU

Coursera has confirmed the identity of this individual and
their participation in the course.