



12/31/2019

Hiroo ISHIKAWA

has successfully completed

Big Data Integration and Processing

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

A handwritten signature in black ink, reading "Ilkay Altintas".

Ilkay Altintas  
Chief Data Science Officer  
San Diego Supercomputer Center

A handwritten signature in black ink, reading "Amarnath Gupta".

Amarnath Gupta  
Research Scientist  
San Diego Supercomputer Center

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/H2ZA59KFRZ26](https://coursera.org/verify/H2ZA59KFRZ26)

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