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NURZHAN SAGADENOV

has successfully completed

Big Data Modeling and Management Systems

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

A handwritten signature in blue ink, reading "Ilkay Altintas", written over a horizontal dotted line.

Ilkay Altintas  
Chief Data Science Officer  
San Diego Supercomputer Center

Amarnath Gupta  
Research Scientist  
San Diego Supercomputer Center

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/XZYHNMVU2L4P](https://coursera.org/verify/XZYHNMVU2L4P)

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