



This is to certify that

**Ruben Quispe L.**

successfully completed and received a passing grade in

**Big Data 101**  
(BD0101EN, provided by IBM)

A course on **cognitiveclass.ai**  
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A blue ink signature of Raul F. Chong.

Raul F. Chong

Big Data University Leader  
Big Data University

**November 22, 2022**

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