



This is to certify that

**Margarita Filenko**

successfully completed and received a passing grade in

**Big Data 101**

(BD0101EN, provided by IBM)

A course on [cognitiveclass.ai](https://courses.cognitiveclass.ai)

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A blue ink signature of Raul F. Chong, written in a cursive style.

Raul F. Chong  
Big Data University Leader  
Big Data University

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