



This is to certify that

JOEL ANTONY

successfully completed and received a passing grade in

Big Data 101 (BD010IEN, provided by IBM)

A course on cognitive class, ai Powered by IBM Developer Skills Network.

Issued by Cognitive Class

Tworty

Raul F. Chong
Big Data University Leader
Big Data University

February 14, 2023

Authenticity of this certificate can be validated by going to:

1/2

50f6f123e05a47e9896ded4e86f1e391

Certificate ID Number:

February 14, 2023