



This is to certify that

# Thiago Gonçalves Guimarães Lopes

successfully completed and received a passing grade in

## Big Data 101

(BD0101EN, provided by Cognitive Class)

A course on [cognitiveclass.ai](https://cognitiveclass.ai)  
Powered by IBM Developer Skills Network.

Issued by  
**Cognitive Class**

**Março 19, 2021**

Authenticity of this certificate can be validated by going to:  
<https://courses.cognitiveclass.ai/certificates/78503b1b3e8a4ae2a11608b8d55e71b9>