

This is to certify that

Jelmer de Boer

successfully completed and received a passing grade in

Spark Fundamentals I

(BD0211EN, provided by Cognitive Class)

an online course on Cognitive Class.

November 11, 2019

Authenticity of this certificate can be validated by going to: https://courses.cognitiveclass.ai/certificates/b6d59b533f1e476ba381e7a0c960c3c7

1 of 1 11/11/19, 3:50 PM