



This is to certify that

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successfully completed and received a passing grade in

## Spark Fundamentals I (BD0211EN, provided by IBM Developer Skills Network)

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

> Issued by **Cognitive Class**

Março 15, 2021

Authenticity of this certificate can be validated by going to: https://courses.cognitiveclass.ai/certificates/052566790d4e4f3e9a9d65f08525c525

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