



This is to certify that

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successfully completed and received a passing grade in

Data Science Hands-On with Open Source Tools

(DS0105EN, provided by CognitiveClass)

an online course on Cognitive Class.

July 30, 2019

Authenticity of this certificate can be validated by going to: https://courses.cognitiveclass.ai/certificates/4ac6d4e5c8d243e385e22de35c6e0fe8