



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.

June 25, 2019

Authenticity of this certificate can be validated by going to: https://courses.cognitiveclass.ai/certificates/5830ba45a87c4969b7c2496e91387ab6