

# Certificate of Completion

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**Vera  
Shishkina**

has demonstrated  
exceptional dedication  
to mastering  
the technology  
of Spark



# Spark

Spark  
Streaming

RDD

Spark ML

Graph  
Frames

YARN

HDFS

Scala API

Data  
Frames



A stylized, handwritten signature in black ink, likely belonging to Elena Tretyakova.

**ELENA TRETYAKOVA**  
Director, New Professions Lab  
October 14, 2019