

Certificate of Completion

880

**Alexander
Chistyakov**

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 signature in black ink, likely belonging to Elena Tretyakova.

ELENA TRETYAKOVA
Director, New Professions Lab
June 8, 2020