

Certificate of Completion

301

WITH HONORS

Alexander
Ulyanov

HAS
DEMONSTRATED
EXCEPTIONAL
DEDICATION
TO MASTERING
THE SCIENCE AND
TECHNOLOGY
OF BIG DATA

LINUX

PYTHON

MAPREDUCE

PANDAS

TOPIC
MODELING

CLUSTERING

HDFS

YARN

DMP

BAG
OF WORDS

COLLABO-
RATIVE
FILTERING

APACHE
SPARK

HBASE

HIVE

MACHINE
LEARNING

TEXT MINING

WORD2VEC

MATRIX
FACTORIZATION

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June
8, 2017

NEW
PRO
LAB