

Certificate of Completion

772

WITH HONORS

Denis
Tolstik

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

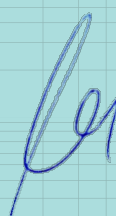
MACHINE
LEARNING

TEXT MINING

WORD2VEC

MATRIX
FACTORIZATION

ELENA TRETYAKOVA
Director, New Professions Lab



December
10, 2019

NEW
PRO
LAB