



UPPSALA UNIVERSITET

This is to certify that Dan Lilja has completed the course in
Introduction to Apache Spark on 2018/04/20, www.lamastex.org/sds/18/1, involving 27 hours
of study at The Department of Mathematics, Uppsala University, Uppsala, Sweden.

A purple ink signature of Volodymyr Mazorchuk.

Volodymyr Mazorchuk
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