



Jan 8, 2022

**Hao Cai**

has successfully completed

**Big Data Analysis with Scala and Spark**

an online non-credit course authorized by École Polytechnique Fédérale de Lausanne and offered through Coursera

A handwritten signature in black ink, reading "Heather Miller", is positioned above a horizontal dotted line.

Heather Miller  
École Polytechnique Fédérale de Lausanne

**COURSE  
CERTIFICATE**



Verify at [coursera.org/verify/NL7LZHRQFBKK](https://coursera.org/verify/NL7LZHRQFBKK)

Coursera has confirmed the identity of this individual and their participation in the course.

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