



08/07/2019

**PAWANDEEP SINGH**

has successfully completed

**Open Source tools for Data Science**

an online non-credit course authorized by IBM and offered through Coursera

A handwritten signature in blue ink, appearing to read 'P. Lin'.

Polong Lin  
Data Scientist, IBM

**COURSE  
CERTIFICATE**



Verify at [coursera.org/verify/6KWTJ6B58H6K](https://coursera.org/verify/6KWTJ6B58H6K)  
Coursera has confirmed the identity of this individual and  
their participation in the course.