



12/10/2018

Juan Manuel Ciro Torres

has successfully completed

Applied Text Mining in Python

an online non-credit course authorized by University of Michigan and offered through  
Coursera

A handwritten signature in black ink, reading 'V. G. Vinod Vydiswaran'.

V. G. Vinod Vydiswaran  
Assistant Professor  
School of Information

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/L6KJNBQCE5JB](https://coursera.org/verify/L6KJNBQCE5JB)

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