

COURSE CERTIFICATE

Mar 3, 2022

James Edward Kowalik

has successfully completed

Applied Text Mining in Python

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



V. ly Vmodhjoinam

V. G. Vinod Vydiswaran Assistant Professor School of Information

Verify at: coursera.org/verify/BJPZV54TUMZY

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