



Dec 6, 2021

Hossam Magdy Hassan Balaha

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
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Verify at coursera.org/verify/AMXZP89MJCPN
Coursera has confirmed the identity of this individual and their
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