



Dec 31, 2021

James Edward Kowalik

has successfully completed

Applied Plotting, Charting & Data Representation  
in Python

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

A handwritten signature in black ink, appearing to read 'Chris Brooks', positioned above a horizontal dotted line.

Christopher Brooks  
Research Assistant Professor  
School of Information

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/WJ5SY4L2DJ54](https://coursera.org/verify/WJ5SY4L2DJ54)

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