



5 Courses

Introduction to Data  
Science in Python

Applied Plotting, Charting &  
Data Representation in  
Python

Applied Machine Learning in  
Python

Applied Text Mining in  
Python

Applied Social Network  
Analysis in Python



Dec 5, 2020

**Hiroki Utsumi**

has successfully completed the online, non-credit Specialization

# Applied Data Science with Python

The 5 courses in this University of Michigan specialization introduce learners to data science through the python programming language. This skills-based specialization is intended for learners who have a basic python or programming background, and want to apply statistical, machine learning, information visualization, and text analysis techniques to gain new insight into their data. In the final course, students will work on real-world data analysis projects, building a portfolio which showcases their work while at the same time helping real clients gain a better understanding of their data.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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