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Gloria Joseph

has successfully completed

Data Collection and Processing with Python

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

**COURSE
CERTIFICATE**



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Verify at coursera.org/verify/GHL4QAEMF2CF
Coursera has confirmed the identity of this individual and
their participation in the course.

Data Collection and Processing with Python

★★★★★ 4.7 2,247 ratings • 363 reviews

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Sponsored by Rajagiri School of Engineering and Technology Kochi

About this Course

This course teaches you to fetch and process data from services on the Internet. It covers Python list comprehensions and provides opportunities to practice extracting from and processing deeply nested data. You'll also learn how to use the Python requests module to interact with REST APIs and what to look for in documentation of those APIs. For the final project, you will construct a "tag recommender" for the flickr photo sharing site.

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Offered by



Shareable Certificate

Earn a Certificate upon completion



100% online

Start instantly and learn at your own schedule.



Flexible deadlines

Reset deadlines in accordance to your schedule.



Intermediate Level

Syllabus - What you will learn from this course

WEEK

1



6 hours to complete

Nested Data and Nested Iteration

In week one the video lectures and activities from the Runestone textbook will cover more complex data structures. By the end of this week, you will have learned how to process json formatted data, traverse nested data using nested iteration, and extract values from nested data.



15 videos , 9 readings, 3 quizzes [SEE ALL](#)

WEEK

2



4 hours to complete

Map, Filter, and List Comprehensions

In week two you will be learning more advanced forms of accumulation. By the end of the week, you will have learned how to use the map and filter functions in combination with functions to transform or filter out data and store the

WEEK

2



4 hours to complete

Map, Filter, and List Comprehensions

In week two you will be learning more advanced forms of accumulation. By the end of the week, you will have learned how to use the map and filter functions in combination with functions to transform or filter out data and store the resulting data in a new object. You will have also learned how to accumulate data using a list comprehension.



13 videos , 5 readings, 3 quizzes [SEE ALL](#)

WEEK

3



6 hours to complete

Internet APIs

In week three you will learn how to request data from the internet using Application Programming Interfaces (APIs). By the end of the week, you will have learned how to access data from a few APIs, cache data that you have requested, and also learned how to read and work with other APIs that were not touched on in the module.



21 videos , 13 readings, 2 quizzes [SEE ALL](#)