



## Microsoft: DAT203x Data Science and Machine Learning Essentials

- ▶ Before You Start
- ▶ Module 1: Introduction and Data Science Theory

### ▼ Module 2: Working with Data

Chapter 9: Data Acquisition and Flow

Lab 2A: Data Acquisition in Azure ML

#### Chapter 10: R and Python for Data Science

Lab 2B: Using R and Python in Azure ML

Chapter 11: Data Sampling and Quantization

Lab 2C: Data Quantization in Azure ML

Chapter 12: Data Cleansing and Transformation

Lab 2D: Data Cleansing and Transformation in Azure ML

#### Module 2 Review

Homework due Oct 30, 2015 at 00:00 UTC

- ▶ Module 3: Visualization,

## OVERVIEW OF R AND PYTHON IN DATA SCIENCE

Azure ML provides a large range of modules that you can use to process data, but many data science projects require custom processing logic that goes beyond these built-in modules. The programming languages of preference for most data scientists are R and Python. This chapter explores how you can extend Azure ML experiments with custom R or Python code.

**Note:** This course is not designed to teach R or Python, but rather how to integrate R or Python code into an Azure ML experiment. If you want to learn R or Python, consider attending one of the following edX courses:

- *Introduction to R Programming:* <https://www.edx.org/course/introduction-r-programming-microsoft-dat204x>
- *Learn to Program Using Python:* <https://www.edx.org/course/learn-program-using-python-utarlingtonx-cse1309x>

and Building  
and Evaluating  
Models

- ▶ Module 4:  
Regression,  
Classification,  
and  
Unsupervised  
Learning
- ▶ Module 5:  
Recommenders  
and Publishing  
Your Work
- ▶ Final Exam

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