Course duration

3 days

Course Benefits

- Learn about the data science process and the role of the data scientist.
- Understand how Azure services can support and augment the data science process.
- Learn to use Azure Machine Learning service to automate the data science process end to end.
- Learn about the machine learning pipeline and how the Azure Machine Learning service's AutoML and HyperDrive can automate some of the laborious parts of it.
- Learn how to automatically manage and monitor machine learning models in the Azure Machine Learning service.

Microsoft Certified Partner

Webucator is a Microsoft Certified Partner for Learning Solutions (CPLS). This class uses official Microsoft courseware and will be delivered by a Microsoft Certified Trainer (MCT).

Course Outline

- 1. Doing Data Science on Azure
 - 1. Introduce the Data Science Process
 - 2. Overview of Azure Data Science Options
 - 3. Introduce Azure Notebooks
- 2. Doing Data Science with Azure Machine Learning service
 - 1. Introduce Azure Machine Learning (AML) service
 - 2. Register and deploy ML models with AML service
- 3. Automate Machine Learning with Azure Machine Learning service
 - 1. Automate Machine Learning Model Selection
 - 2. Automate Hyperparameter Tuning with HyperDrive
- 4. Manage and Monitor Machine Learning Models with the Azure Machine Learning service
 - 1. Manage and Monitor Machine Learning Models

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following is required for this Azure class:

- Azure Fundamentals.
- Understanding of data science including how to prepare data, train models, and evaluate competing models to select the best one.
- Ability program in the Python programming language and use the Python libraries: pandas, scikit-learn, matplotlib, and seaborn.