

# Deep Learning for Healthcare Image Analysis

**Duration**

8 hours

**Modality**

- Instructor-led
- Online ILT

**Course Number**

- MR-1CN-DLHIA
- MR-1LN-DLHIA

**OVERVIEW**

This workshop covers medical image segmentation using DIGITS, medical image analysis with R and MXNet, and how to predict radiomics using Keras and Tensorflow.

**COURSE OUTLINE**

- Medical Image Segmentation using DIGITS
  - Learn how to use popular image classification neural networks for semantic segmentation using Sunnybrook Cardiac Data to train a neural network to locate the left ventricle on MRI images.
- Medical Image Analysis with R and MXNet
  - Explore how to detect features indicative of medical conditions by using MxNet to train a CNN to infer the volume of the left ventricle of the human heart.
- Image Classification with TensorFlow: Radiomics - 1p19q Chromosome Status Classification with Deep Learning

**MODALITIES****Classroom**

Traditional classroom training, with hands-on labs or case-studies, delivered at one of our many training centers worldwide, by a highly qualified Dell Technologies instructor.

**Virtual Class**

A real-time interactive training experience where students participate online. Lecture, discussion, questions and answers, and lab exercises make this a rich and flexible training experience.

**CONTACT US**

Engage your local Education Services Account Manager for local pricing information and scheduling classes. Visit us online at [education.dellemc.com](http://education.dellemc.com) or call +1 888 362 8764 (US).