

# Deep Learning for Healthcare Image Analysis

## Course Description

**Course Duration**  
8 Hours

### Overview

This full-day 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**

### Course Delivery Options

This course is currently available in the following formats:



**MR-1CN-DLHIA:** Instructor led - includes hands-on lab exercises that reinforce the concepts covered in lectures.



**MR-1LN-DLHIA:** Online ILT - Live course delivered via the internet where participants attend virtual classroom interacting with instructors and other participants. A headset with microphone is **REQUIRED** to speak with the instructor and the rest of the class. Text communication is also available through the virtual classroom.

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