Deep Learning for Biological Sciences
Course ID: ECSDLBLS

Course Time:
1 Day

Course Content

Morning Session:

Deep Learning Fundamentals
+ MLPs
+ CNNs
+ LSTMs

Deep Learning Applications in Life Sciences

General Use Cases
+ Medical Imaging
+ Bio-Informatics
+ Pathology

Application Examples
+ Classifying and counting White blood cells
+ Predicting epidemics
+ Predicting Sepsis in the ICU
+ Robot Surgery Segmentation
+ Diagnosing Diabetic Eye Disease

Afternoon Session:

Tools and Platforms
+ Major Deep Learning Libraries
+ Public Cloud Options
+ Hardware / GPUs

Kubeflow Platform
+ Containers
+ Helm
+ Jupyter Notebooks
+ Kubernetes
+ Kubeflow
+ Serving Models

Live Demo
+ Detecting white blood cells example with Keras in Jupyter notebook

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