

Deep Learning are implemented using neural networks and can be used for numerous applications such as for automated driving, defect detection, classification of cells. One of the most popular ways that Deep Learning can be and has been used is for object recognition. A typical part of object recognition is classifying these objects. This classification typically occurs for a large number of objects. This data also needs to be collected and the results of these classifications are often visualized plus analyzed. There are many approaches for data collection and one of the more recent approaches entails using the Internet of Things! During this workshop, you will do hands-on exercises where: you will use a webcam and a neural network to recognize images, aggregate data, and run real-time IoT analytics. Our goal is to get you excited about IoT and Deep Learning, and to set you up for success with projects in your community after the conference.

The topics that will be discussed in this workshop are as follows:

- What is the connection between Artificial Intelligence and Deep Learning?
- How can data be collected for large groups?
- What is IoT?
- How is IoT used to aggregate data?
- How can we visualize results from aggregated data?