

# Computer Vision with IBM

How Watson image understanding tools can help you achieve your goals?

The workshop includes lectures, discussions on how Watson image understanding tools can help you achieve your goals. There will be a lot of hands-on exercises for you to get deep understanding of learned concepts. We will analyze several examples and discuss details of usage of neural network algorithms in those examples.

**Date:** 2020-03-25, 10:00 - 2020-03-26, 16:00

**Location:** IBM Warsaw, ul. Krakowiaków 32, room 132

## Highlights:

During this workshop, we will cover:

- Visual Recognition Challenges & Use Cases
- Visual Recognition Out-of-the-box tooling & custom models
- APIs, CoreML on Apple device, Google ML Kit
- Creating custom Neural network models with Watson Studio Jupiter notebook (Keras)
- PowerAI Vision Solution overview
- Existing usages and extended considerations

## Agenda:

- IBM Cloud and Watson AI introduction
- Computer vision
- Challenges and Use Case Watson Visual Recognition Out-of-the-box tooling, Custom models creation CoreML and APIs
- Lab 1: Using Visual Recognition defaults models with out-of-the-box tool
- Building Custom Models
- AutoML considerations
- Building Custom Models from scratch
- Considerations for Image understanding (CNN)
- Jupiter notebook with Keras ML framework
- Deployment on WML
- Lab 2: Creating a Keras CNN model for Handwritten digits
- Introduction to out of the box PowerAI Vision Solution
- Watson Machine Learning stack overview
- Demo of PowerAI Vision
- Lab 3: Custom training & hands-on
- Extended consideration

**Course Instructor:** Jean Luc Collet, Lead Architect for Analytics & Cognitive Systems at IBM, Nice Meridia, France.

**Prerequisites:** Basic understanding of Data handling, basic programming ability

**Registration:** [kamila.lis@ibm.com](mailto:kamila.lis@ibm.com): Please include your: name, surname, e-mail and company's name