

Object Recognition from Images with YOLO

Duration: 3 Days · **Training format:** Virtual Classroom / Online

Description

YOLO (You Only Look Once) is an AI-powered technology aimed at object recognition from images (camera footage, video, pictures). Today, AI applications are making significant progress in various fields such as image recognition, speech recognition, text analysis, and more. Among these, image processing and object detection and recognition hold a crucial place. Expertise in object recognition from images is required in many areas, from autonomous vehicles to aerial object detection and tracking using UAVs. YOLO is a widely used technique in these applications. This training provides an introductory overview of YOLO, including Python coding examples and the necessary foundational knowledge, enabling participants to further develop their expertise.

Audience

Individuals interested in artificial intelligence, image processing, and object recognition technologies.

Outline

What is YOLO?

- YOLO Versions
- Application Areas

How to Recognize Objects from Images?

- Object recognition from images
- Object recognition from webcam footage
- Object recognition from recorded videos

Object Recognition with COCO Dataset

- What is the COCO dataset?
- How does it work?

Custom Object Recognition with Our Trained Dataset

- Creating a dataset

- Training (with Python)
- Testing the trained dataset and performance evaluation
- Usage examples

Sample Applications

- Application examples in different fields