Agricultural robots are used in a variety of applications. Examples are the detection of plant diseases, weed or simply the type of objects. However, it is often seen that the quality of detection depends on the environment (sun, weather, ..).

This problem also affects other areas like autonomous driving in general.

To improve this situation, there are different approaches, such as the fusion of several sensors or simply a larger/better amount of training data.

Potential topics in these areas are as follows:

**Topics**
- Robustness in Object Detection
- Dataset Generation with Generative Adversarial Networks
- Detection in Point Clouds

**Requirements**
- Basic understanding of Neural Networks
- Basic knowledge in C++/Python
- Basic knowledge in Computer Vision
- Interest in robotic applications

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