

## **Object Detection**

Object Detection is a computer vision task that involves identifying and locating objects within images or video streams. It is a crucial component of many applications, including surveillance, autonomous vehicles, and image retrieval systems. Object detection algorithms use techniques such as deep learning, feature extraction, and convolutional neural networks (CNNs) to detect and localize objects with bounding boxes in images or video frames. They are used for tasks such as pedestrian detection, vehicle detection, and facial recognition.