

Real-Time Object Detection using Python

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Abstract: *Object detection is a critical part of computer vision, allowing machines to recognize and identify objects in images or videos. Using Python and modern deep learning models like YOLO, SSD, and Faster R-CNN, this paper showcases techniques to achieve accurate, real-time object detection. The proposed system uses libraries such as TensorFlow and PyTorch for training and inference, focusing on real-world applications like security, autonomous vehicles, and healthcare.*

Keywords: Object detection