Real Time Object Detection using Artificial Intelligence

Dr. Monika Rokade[1], Dr. Sunil S. Khatal[2], Nikita Avhad[3], Suyog Kute[4], Dhanashri Wadekar[5]

[1,2,3,4,5] Department of Computer Engineering

Sharadchandra Pawar College of Engineering, Otur (Dumbarwadi), Junnar, Pune

Abstract: *A wide, active, and challenging field of computer vision is real-time object detection. Image localization refers to the process of finding a single object in an image, while object detection refers to the process of finding several objects in an image. This recognizes a class of semantic items in digital photos and movies. Real-time object detection has a variety of uses, including object tracking, video surveillance, people counting, pedestrian detection, self-driving automobiles, facial recognition, sports ball tracking, and more. When detecting objects with the aid of OpenCV a library of programming functions primarily geared toward real-time computer vision, Convolution Neural Networks is a representative technique of deep learning.*

Keywords: Object detection, OpenCV, CNN, Realtime processing