

Object Detection using Convolutional Neural Network

Dr. B. V. Pranay Kumar¹, P. Rahul², S. Avinash³, K. Shyamsundar⁴, B. Sandhya⁵, B. Sandhya⁶
Associate Professor, Department of Computer Science & Engineering¹
UG Students, Department of Computer Science and Engineering^{2,3,4,5,6}
Christu Jyothi Institute of Technology & Science, Jangaon, Telangana, India

Abstract: *During the last years, a noticeable growth is observed in the field of computer vision research. In computer vision, object detection is a task of classifying and localizing the objects in order to detect the same. The widely used object detection applications are human– computer interaction, video surveillance, satellite imagery, transport system, and activity recognition. In the wider family of deep learning architectures, convolutional neural network (CNN) made up with set of neural network layers is used for visual imagery. Deep CNN architectures exhibit impressive results for detection of objects in digital image. This paper represents a comprehensive review of the recent development in object detection using convolutional neural networks.*

Keywords: computer vision, convolutional neural networks, image classification, object detection, transferlearning