

A NOVEL MODEL FOR DETECTION OF OBJECTS IN VARIED AND COMPLEX IMAGES

An effective and accurate object detection is very important topic in the advancement of computer vision systems. Development in the area of deep learning technique helps to increase accuracy of object detection. This project is completely based on deep learning. To achieve highly efficient object detection the help of open image data set is used. Open image data set is a advanced type of data set which have many features such as large scale, hierarchical tag system etc. Many strategies such as larger backbone, expert model of heavier classifiers are employed. Tensorflow which is a deep learning framework is used to build a Faster R-CNN architecture for automatically recognizing objects in images. For obtaining high level features Inception Resnet V2 convolutional feature extractor is used.

Keywords: *Object detection, Deep learning, Tensorflow, Faster R-CNN.*