

ABSTRAK

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OBJECT DETECTION APP BUILDING USING REACT.JS AND TENSORFLOW.JS WITH COCO SSD PRE-TRAINED MODEL

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(xi + 70 + lampiran)

Object detection is a technique for finding objects in an image or video. To create an object detection is to use Tensorflow.js. In Tensorflow.js provides a coco-ssd pre-trained model library that can be used in creating object detection. In making this object detection, it is expected to be able to localize and identify several objects in one image by providing bounding boxes according to the location of surrounding objects through webcam captures and also providing information about class names and scores. This COCO model detects objects defined in the dataset, which is a collection of detection data, segmentation by labeling in which each pixel is provided for a particular object, and texts are large-scale and capable of detecting 80 classes of objects. This study used javascript programming language and several frameworks provided. In this study, it will use the SSD (Single Shot Multibox Detector) method, which will detect it in real-time. The experiment will be carried out with the results of observations of how far the object is and how clear the object is from the webcam. And from the trials carried out on the detected objects, it takes 1 –20 seconds to get a perfect result.

Daftar Pustaka (2009 – 2020)