

PROBLEM SOLUTION:

People often take pictures of their food before they eat and put it on social media, well the solution lies in that very process. We propose to estimate the calorie content in the user-provided image by identifying the food and estimating the quantity using deep learning.

To give an estimation of the calories we need accurate object detection combined with accurate IoU (intersection over the union). An impressive amount of IoU can be achieved using Single Shot Detections which are also faster than their counterparts but the problem is with the segmentation. We cannot approximate the amount with the output of Bounding Box, we need more precision. So, the solution would be to use Instance Segmentation.