

ABSTRACT

UNICEF and WHO declared that obesity occurred in Indonesia, not only for elderly people, but also at an early age. Indonesians prefer junk food as their daily food, which contains a lot of calories. With this kind of behavior, it will trigger non-communicable disease (NCD) like diabete and cardiovascular problems. By counting calorie consumption per-day you can avoid the risk of getting NCD. Deep Learning is a Machine Learning on Computer Vision level that can learn dataset independently. With Image Recognition, especially in food, and combine them as a food recognition that can be implemented by CNN Algorithm. Automation in Deep Learning utilize CNN Algorithm is a one of method that most efficient and accurate in its field, to achieve Calorie Detection, the output of Food Recognition will be changed to the number of calorie content of the foods, and to support Calorie Detection, data augmentation will be used to improve accurate model on Deep learning process. With CNN Algorithm, the model will be used as a reference for calorie detection. Indonesian food is the dataset that will be used as a research point, it comes from website fatsecret.id, instagram account of masakan.ggl and daily food of the writer that was captured with camera. The output will be a range of calorie content from the food that is determined by the food image as a data test.

Keywords : *CNN Algorithm, Calories, Image Classification, Deep Learning, Food Recognition, Feature Extraction, Calorie Detection*