Deliverables

Research report detailing:

Collect massive data about various kinds of food mainly from the following 3 websites:

    58PIC: http://www.58pic.com/tupian/shiwu.html

    BOOHEE: http://www.boohee.com/food/

    FITNES: http://www.fitnes.cn/food/

Prepare data: Find pictures and related data (such as calorie, quality and so on) of various foods, then screen out foods to ensure the diversity and commonness of data.

Analyze the data sets: Associate food images with related data and store them in groups according to different criteria.

Training algorithm.

Test algorithm: Test whether the food picture and data match each other, and evaluate the richness of the food types in the database.

① Use the CNN algorithm.

There are four main steps in CNN: convolution, subsampling, activation and full connectedness. (Hhchin87, 2015)

Reference:

Hhchin87. (2015). Convolutional Neural Networks(CNN) Introduction. Retrieved on November 2, 2018 from:

https://www.google.com.hk/amp/s/algobeans.com/2016/01/26/introduction-to-convolutional-neural-network/amp/