

AI NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

PROPOSED SOLUTION

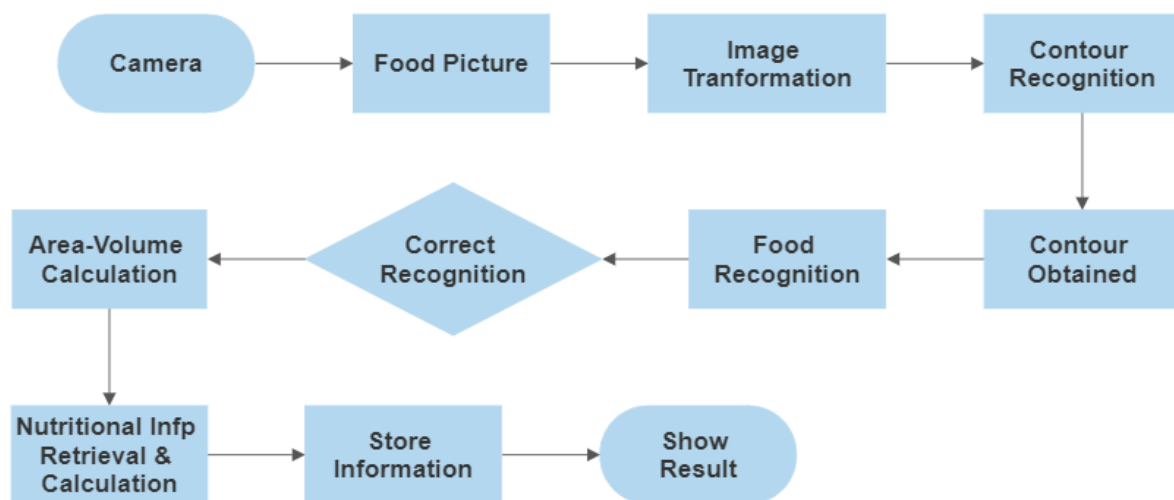
NOVELTY:

The application has several unique features. The main feature is that the user need not have to visit or consult a Nutritionist (or) a Dietician to follow a fit and healthy diet. This application has the feature of analysing the entire nutritional content of fruits and vegetables by simply scanning them. It can also show which food should be eaten for the diseased patients.

FEASIBILITY:

Creating a dataset with food classes. Annotate the images using tool-ImgBox and using pre-trained COCO Model along with own dataset to train the model. We are using Mask-RCNN algorithm for object detection and calculating the masked surface area.

BUSINESS MODEL:



SOCIAL IMPACT:

AI is revolutionizing the health industry from improving marketing and sales decision. AI is now also being used to reshape individual habits. For instance, AI can easily track health behaviors and repetitive exercise patterns and use the data to guide you towards your fitness journey.

SCALABILITY:

In the future, we plan to continue improving performance of the algorithms. In terms of detection accuracy and system in terms of response time and energy consumption. We also plan to integrate our system into a real-world mobile devices and edge/cloud computing-based system. To enhance the accuracy of current measurements of dietary caloric intake estimate.