

AI-powered Nutrition Analyzer for Fitness Enthusiasts

Problem Statement:

Food is essential for human life and has been the concern of many healthcare conventions. A well-balanced diet provides all of the energy you need to keep active throughout the day. Nowadays new dietary assessment and nutrition analysis tools enable more opportunities to help people understand their daily eating habits, exploring nutrition patterns and maintain a healthy diet. Nutritional analysis is the process of determining the nutritional content of food. It is a vital part of analytical chemistry that provides information about the chemical composition, processing, quality control and contamination of food.

The main aim of the project is to build a model which is used for classifying the food depends on the different characteristics like color, shape, texture etc. Here the user can capture the images of different food items and then the image will be sent the trained model. The model analyses the image and detect the nutrition based on the food item like Sugar, Fibre, Protein, Calories, etc..