

**Ideation Phase**  
**Define the Problem Statements**

Date	5 October 2022
Project Name	AI Powered Nutrition Analyst for Fitness Enthusiasts.
Maximum Marks	2 Marks

**Problem Statement:**

Food is essential for human life and has been the concern of many healthcare conventions. 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 building a model which is used for classifying the fruit depends on the different characteristics like colour, shape, texture etc. Here the user can capture the images of different fruits and then the image will be sent the trained model. The model analyses the image and detect the nutrition based on the fruits like (Sugar, Fibre, Protein, Calories, etc.).

I am	The fitness Analyst, who is in need of an assistance to choose to my best food for my health based on nutrition.
I'm trying to	Use the recent technologies to check the nutrition of fruits and choose my consumption based on it.
But	I am unaware of the existing technology that can help me to guess the nutrition of various fruits for the given input.
Because	I don't want to make any wrong decision about nutrition.
Which makes me feel	I'm not capable of choosing the right food for the maintenance of my health, thus leading a healthy life.