

## Ideation Phase

### Define the Problem Statements

Date	22 September 2022
Team ID	PNT2022TMID50689
Project Name	AI-Powered Nutrition Analyzer 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 maintaining 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 fruit depending 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 to the trained model. The model analyses the image and detects the nutrition based on the fruits like (Sugar, Fibre, Protein, Calories, etc.).

#### Problem Statement Template:



I am (Customer)	The fitness analyst requires help choosing foods for their nutritional value in order to maintain good health.
I'm trying to	Do use the recent technologies to check the nutrition of fruits and choose my consumption based on it.
But	I am aware of current technology that can assist me in estimating my nutritional needs numerous fruits for the supplied input.
Because	I don't wish to choose improperly regarding my diet.
Which makes me feel	I am unable to make the proper food choices for preserving my health and living a healthy life.