

## Project Objectives

Date	19 November 2022
Project Id	PNT2022TMID47872
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts

*As the world grows more fitness-conscious with the passing time, the demand for technological solutions to cater to this burgeoning demand is diversifying.*

*Lately, a number of startups in India and worldwide are using predictive analytics artificial intelligence and natural language processing to help scores, of fitness enthusiasts, track and monitor their nutrition and calorie*

*intake. 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, explore 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 fruit depending on the different characteristics like color, shape, texture, etc. Here the user can capture 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.*