



# **AI-Powered Nutrition Analyzer for Fitness Enthusiasts**

## **Project Objectives**

Food is vital to human existence and has been a topic of discussion at several medical meetings. These days, additional chances exist to assist people in understanding their daily eating habits, examining nutrition patterns, and maintaining a balanced diet thanks to new dietary evaluation and nutrition analysis technologies. The technique of figuring out a food's nutritional makeup is called nutritional analysis. It is an essential component of analytical chemistry that offers details on the chemical make-up, processing, quality assurance, and contamination of food.

The primary goal of the project is to develop a model that will be used to categorize fruits according to their many attributes, such as color, shape, and texture. Here, users may take pictures of various fruits, which are subsequently uploaded to a trained algorithm for analysis. The algorithm examines the picture and determines the nutritious content of fruits such as Sugar, Fibre, Protein, Calories, etc.