Project Design Phase-I

Proposed Solution Template

Title	AI powered nutrition analyzer for fitness enthusiasts
College Name	AVS College of Technology
Team Id	PNT2022TMID42147

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Now a days 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.
2.	Idea / Solution description	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.).
3.	Novelty / Uniqueness	The application has several unique features. The main feature is that the user need not have to visit or consult a Nutritionist (or) a Dietician to follow a fit and healthy diet.
4.	Social Impact / Customer Satisfaction	The app application is easy to install by all the customers but for specific application the customer want to pay. It is used to schedule a diet plan by taking the image of a food item and if we send it, we can get information about each food nutrition like carbohydrates, fat, proteins, vitamins, minerals and sugar. This will help others to improve their health and fitness.
5.	Business Model (Revenue Model)	The app application is easy to install by all the customers but for specific application the customer want to pay. Suggesting or advertising health supplements or products for users for better result.
6.	Scalability of the Solution	Scalable AI pertains to how data models, infrastructures, and algorithms can increase or decrease their complexity, speed, or size at scale in order to best handle the requirements of the situation at hand. Scaling up nutrition is a global push for action and investment to improve maternal, child nutrition and various health problems.