
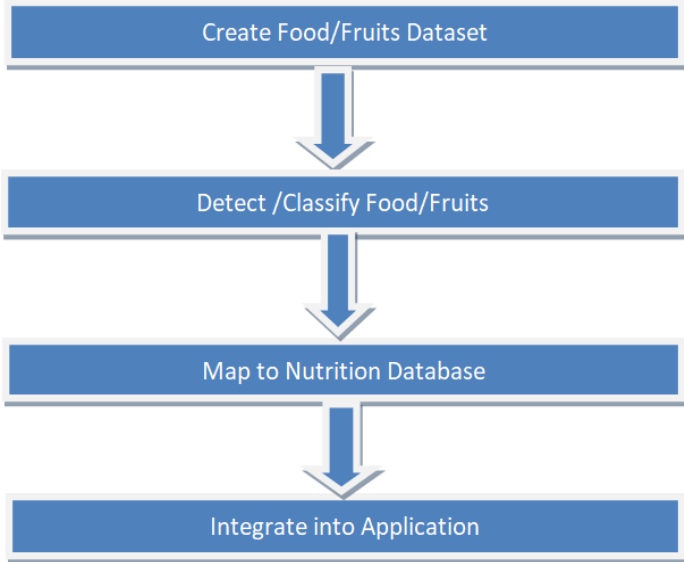


Project Design Phase-I
Proposed Solution

Date	30 September 2022
Team ID	PNT2022TMID04276
Project Name	AI-Powered Nutrition Analyzer For Fitness Enthusiasts
Maximum Marks	2 Marks

Proposed Solution:

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> ➤ A nutritional problem or deficiency refers to a condition when an individual's body experiences a shortage of essential nutrients or some specific nutrient. Such problems can give rise to several health issues such as anaemia. ➤ People with healthy eating patterns live longer and are at lower risk for serious health problems such as heart disease and obesity. For people with chronic diseases, healthy eating can help manage these conditions and prevent complications.
2.	Idea / Solution description	<ul style="list-style-type: none"> ➤ 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 color, 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, Fiber, Protein, Calories, etc.). 
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ➤ 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

		<p>and maintain a healthy diet.</p> <ul style="list-style-type: none"> ➤ Accurate nutrition can be analyzed by using our model based on the characteristics of the fruits.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ➤ Kids who ate healthier diets showed more friendliness and social play than kids who didn't. Our relationships, with others and with ourselves, are both affected by the foods we eat. Eating a nutritious diet can lead to weight loss, increased energy and improved mental health.
5.	Business Model (Revenue Model)	 <pre> graph TD A[Create Food/Fruits Dataset] --> B[Detect /Classify Food/Fruits] B --> C[Map to Nutrition Database] C --> D[Integrate into Application] </pre>
6.	Scalability of the Solution	<ul style="list-style-type: none"> ➤ It is a unique movement founded on the principle that all people have a right to food and good nutrition. It unites people - from governments, civil society, the United Nations, donors, businesses and researchers - in a collective effort to improve nutrition.