

Project Design Phase-I
Proposed Solution Template

Date	28 October 2022
Team ID	PNT2022TMID43802
Project Name	AI – Powered Nutrition Analyzer for fitness Enthusiasts
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

1	Problem Statement (Problem to be solved)	The primary aim of the project is to construct a model which is used for figuring out the fruit relies upon on the exclusive traits like coloration, form, texture and so forth. The usage of photo processing. Here the person can capture the pics might be analysed with the trained model. The version analyses the photograph and lists out of vitamins present in the fruit like sugar, vitamins, minerals, protein and many others.
2	Idea / Solution description	The concept of this assignment is that person can seize the photos of different fruits and vegetables and then the picture may be sent to the skilled version. The version analyses the picture and detects the nutrients based totally at the end result like sugar, Fibre, Protein, Calorie intake, and so on. The above concept is carried out through the usage of the CNN (Convolution Neural community). It's far used to choose the raw pixels present within the photograph. Fruit Recognition the usage of coloration and texture functions.
3	Novelty / Uniqueness	The project has numerous unique capabilities. The primary feature is that the consumer want not have to go to or consult a Nutritionist (or) a Dietician to follow a in shape and wholesome weight loss plan. This mission has the feature of analysing the complete nutritional contents of fruits and greens by way of genuinely scanning them. It affords for a customised nutritional requirement for individuals who have Confined choices while selecting food.

4	Social Impact / Customer Satisfaction	<p>This mission will collect understanding and offer records approximately nutrition. Now a days, no person follows the healthy diet weight reduction plan.</p> <p>Supplying this statistics, they arrive to know about the nutrition found in every meals item. It is used to agenda a diet regime by means of taking the image of a food item and if we send it, we will get statistics about each meals nutrition like carbohydrates, fats, proteins, vitamins, minerals ,and sugar. This could assist others to enhance their fitness and health.</p>
5	Business Model (Revenue Model)	<p>Internet (or) Social media is the best way to spread the word about our project and with the help of influencers we can attract normal people. Clustering and targeting the fitness people with the help of local gyms and grounds. Allowing 3rd party vendors to sell their products through our application via advertisements is way to generate money. If the products sold through advertisements, then it is even good.</p>
6	Scalability of the Solution	<p>Artificial Intelligence (AI) can be used to predict investment outcomes quickly and effectively, as well as to devise strategies or establish long term-goals.</p> <p>Scalable AI pertains to how data models, infrastructure, and algorithms can increase or decrease their complexity, speed, or size at scale in order to best handle requirement of the situation at hand. As improvements continue with data storage capacities as well as computing resource, AI models can be created with millions of parameters. Scaling up nutrition is a global push for action and investment to improve maternal, child nutrition and various health problems.</p>