Project Design Phase-I
Proposed Solution

Date	31 October 2022
Team ID	PNT2022TMID48802
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To build a model which is used for identifying the fruit depending on the different characteristics like colour, shape, texture etc using image processing
2.	Idea / Solution description	The idea of this application is that the user can capture the 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. This idea is achieved by using the Convolution Neural Network (CNN) .
3.	Novelty / Uniqueness	The application has the feature of analysing the entire nutritional content of fruits and vegetables by simply scanning them.
4.	Social Impact / Customer Satisfaction	It is used to schedule a diet plan by taking the image of a food item. We can get information about the nutrition present in the item like carbohydrates, fat, proteins, vitamins, minerals and sugar. This will help others to improve their health and fitness.
5.	Business Model (Revenue Model)	Social media is the best way to spread the world about our application and with the help of influencers we can attract normal people. Clustering and targeting the fitness people with the help of local gyms. Allowing third-party vendors (Nutritional Products) to sell their products through our app via advertisements is way to generate money. If the products sold through advertisements, then it is even better.
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. As improvements continue with data storage capacities as well as computing resources, AI models can be created with billions of parameters. Scaling up nutrition is a global push for action and investment to improve maternal, child nutrition and various health problems