

Project Design Phase-I
Proposed Solution Template

Date	10 October 2022
Team ID	PNT2022TMID43392
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The main aim of the project is to build a model which is used for identifying the fruit depends on the different characteristics like colour, shape, texture etc using image processing. Here the user can capture the images of different fruits and then the image will be analysed with the trained model. The model analyses the image and lists out the nutrients present in the fruit like sugar, vitamins, minerals, protein etc.
2.	Idea / Solution description	To identify the given input data and to provide nutritional facts based on the obtained data.
3.	Novelty / Uniqueness	The user can upload the images of different fruits, and the trained model analyses the image and detects the nutrition based on the fruits like (Sugar, Fibre, Protein, Calorie intake, etc.). CNN algorithm is used for Fruit Recognition using Colour and Texture Features and to classify the nutrition values.
4.	Social Impact / Customer Satisfaction	Improvement in their nutritional values Automatic fitness analyser and calorie management
5.	Business Model (Revenue Model)	Advices from expert Social media advertisement to attract people Allowing third-party vendors (Nutritional Products) advertisements
6.	Scalability of the Solution	Collecting more varieties of food data expands the application and improves the accuracy Further nutritional values can be added to improve maternal, child nutrition and various health problems.