

Project Design Phase-I
Proposed Solution Template

Date	08 October 2022
Team ID	PNT2022TMID47872
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.

S.No:	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>To build an efficient AI based model which is used for dietary assessments and provide the following constraints:</p> <ul style="list-style-type: none">• To capture the fruits using the AI tool.• The model analyses the images and give the nutrition based on the fruits.
2.	Idea / Solution description	<p>The AI based model is built by using the Image/object recognition and classification using CNN. By using this,</p> <ul style="list-style-type: none">• The user interacts with the UI and give the image as input.• Then the image will pass to our flask application.• Finally, our model classify the result and showcase it on the UI.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">• This Nutrition Analyzer system is User Friendly and 24*7. So the user can access it anywhere at any time.• This system uses AI and Image classification technology to identify the fruit correctly and accurately give the analysis .
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">• The customer can easily identify the fruits nutrition patterns just from the picture.• They can maintain their dietary plan on their own via this system.• It will give a proper guidance and accurate analysis to the end users.• It should act as a bridge towards achieving high accuracy on predicting

		and analysing the image taken as input and to deliver the output with respective to the input image.
5.	Business Model (Revenue Model)	This AI based system can attract a lot of customers who want to maintain their dietary plan and get to know about their eating habits. So it is useful for many peoples across the world. And also more users can increase the revenue.
6.	Scalability of the Solution	By this system ,the user can efficiently and effectively understand their daily eating habits, exploring nutrition patterns and maintain a healthy diet.