

Project Design Phase-I
Proposed Solution Template

Date	20 SEPTEMBER 2022
Team ID	PNT2022TMID44882
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)	The main aim of the project is to building a model which is used for classifying the fruit depends on the different characteristics like colour, shape, texture etc.
2.	Idea / Solution description	Brand-new fruit classification method called HPA-SLFN can be implemented for classification as it gives better results when compared to other techniques
3.	Novelty / Uniqueness	The models performance and accuracy for the analyses of image and detection rate of the nutrition based on the fruits is higher.
4.	Social Impact / Customer Satisfaction	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, Fibre, Protein, Calories, etc.).

5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ●Data analytics ●Statistics ●Future prediction
6.	Scalability of the Solution	The model is scalable from the architecture and dataset training perspective. We can train huge amounts of image data by converting them into .npy / .npz file format which would facilitate easy storing, retrieving and processing.