Project Design Phase-I

Proposed Solution Template

Date	**23 September 2022**
Team ID	**PNT2022TMID37892**
Project Name	**Project** - 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	Parameters	Description
1	Problem Statement (Problem to be solved)	The model analyses the image and detect the nutrition based on the fruits like (Sugar, Fibre, Protein, Calories, etc.).
2	Idea / Solution description	**TensorFlow** is an open-sourced end-to-end platform, a library for multiple machine learning tasks, while Keras is a high-level neural network library that runs on top of TensorFlow. **A convolutional neural network (CNN)** is a type of artificial neural network used in image recognition and processing that is specifically designed to process pixel data.
3	Novelty / Uniqueness	Tracks and recommends the perfect diet plan needed for the person based on their and Maintenance calorie **BMI (Body Mass Index).**
4	Social Impact / Customer Satisfaction	**Accurate Food Nutrition** chart and providing value to customer that can help to prepare themselves a weekly proper diet. Based on the Solution of the Real time Fitness Enthusiasts and Trainer. **Artificial Intelligence** detects the algorithm on the person which plan may work and won't work.
5	Business Model (Revenue Model)	Fitness Analyzer comes up with Premium version where customers can directly contact the Nutritional experts and Fitness Trainers. Also Community can be built so that people can add review about their fitness journey. This increases the Productivity and converts the product in terms of Revenue Model.
6	Scalability of the Solution	**Convolutional neural networks** solution consists of two Level solutions. Namely **Convolution & ReLu Layer**. A **convolution** converts all the pixels in its receptive field into a single value. **ReLu Layer** remove every negative value from the filtered image and replace it with zero.