**PROJECT TITLE:** AI-powered Nutrition Analyzer for Fitness Enthusiasts **PROJECT DESIGN PHASE I – SOLUTION FIT** **TEAM ID:** PNT2022TMID40555

Define CS, fit into

### 1. CUSTOMER SEGMENT(S) — CS

People trying to live a healthy life and to know the nutrients present in the food they eat. They can also analyse the nutrients and prepare or plan a diet according to their health and body conditions.

### 6. CUSTOMER — CC

- Network connectivity
- Accurate data
- Knowledge about the data required
- Customer Satisfaction
- Food or nutrition related analyzer

### 5. AVAILABLE SOLUTIONS — AS

Web application should provide user-friendliness to fitness enthusiasts by helping them providing food related information and proper responses without any delay.

Artificial intelligence is used to analyze the food image structure and displays the amount of food contents present in the food.

Explore AS,

Focus on J&P, tap into BE, understand

### 2. JOBS-TO-BE-DONE / PROBLEMS — J&P

Analyzing the food image structure and display the amount of food contents present in the food.
Eating the food items by analyzing the amount of contents present in it.

### 9. PROBLEM ROOT CAUSE — RC

It is for the awareness to help people understand their intake of food. Displaying the nutrient content of the food they are consuming is one of the best solution for making people to maintain a healthy diet.

### 7. BEHAVIOUR — BE

To build a model which classifies the food such as fruits, vegetables, cereals, pulses etc. depending on several characteristics such as the food's texture, color, shape, quantity etc.

Focus on J&P, tap into BE, understand

Identify strong TR & EM

### 3. TRIGGERS — TR

Some people who are fitness freaks lead a healthy life by following the diet without any health issues and that triggers other people to be fit and healthy.

### 4. EMOTIONS: BEFORE / AFTER — EM

Before : Confused state without the necessary nutrition information about the food people eat.
After : Clear idea about the nutrient content, knowing about the pros and cons of the food people eat and lead a healthy life.

### 10. YOUR SOLUTION — SL

Classification of food is done by an algorithm based on the convolution neural network and detects the food. Detecting the food is based on training the neural network using the images as dataset.

### 8. CHANNELS of BEHAVIOUR — CH

8.1 ONLINE

- Through social media platforms
- Through advertisements

8.2 OFFLINE

- Customer recommendation

Extract online & offline CH of