

Ideation Phase

Define the Problem Statements

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID03894 |
| Project Name | Project - AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum Marks | 2 Marks |

Customer Problem Statement Template:

The state of people's health and wellbeing is one of the new issues that has emerged. Health and nutrition are unquestionably important parts of existence. Therefore, technology advancements are crucial to enhancing and even promoting health awareness. Because of the portability and accessibility of mobile computing, it has become much simpler to be aware of health information. Many mobile applications are being created as tools for dietary guidance and health monitoring. Mobile applications can support a variety of health requirements, including food classification, heart rate detection, and many others.

Food is a necessity for human life and has been addressed in numerous medical conventions. Modern dietary evaluation and nutrition analysis technologies give consumers more possibilities to explore nutrition patterns, comprehend their daily eating habits, and keep up a balanced diet. Finding out a food's nutritional value is done through nutritional analysis. Information about the chemical make-up, processing, quality assurance, and contamination of food is a crucial component of analytical chemistry.

The primary goal of the project is to develop a model that will be used to categorise fruits according to their various attributes, such as colour, shape, and texture.

Here, users can take pictures of various fruits, which are subsequently uploaded to a trained algorithm for analysis. The algorithm examines the image and determines the nutritious content of fruits such (Sugar, Fibre, Protein, Calories, etc.)

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| I am | a middle-aged person |
| I'm trying to | trying to overcome vitamin deficiency |
| But | I don't know what type of diet suits me the best |
| Because | I am unaware of the nutritional content in the food |
| Which makes me feel | I'm unable to make choices that will maintain my health and allow me to live a long, fulfilling life. |

Example:

