Project Design Phase-I Proposed Solution

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| **Date** | 04 November 2022 |
| **Team ID** | PNT2022PMIT50401 |
| **Project Name** | Demand Est-AI Powered Food Demand Forecaster |

**Proposed solution:**

The main aim of this project is to create an appropriate machine learning model to forecast the number of orders to gather raw materials for next ten weeks.

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| **S. No** | **Parameter** | **Description** | |
| 1 | Problem statement (problem to be solved) | • | Perishable raw materials must be handled daily by a food  delivery service provider. |
| • | Therefore, it is crucial to forecast the number of raw  materials required for meal orders. |
| 2 | Idea / Solution description | • | The main objective of food demand forecaster project is to build a machine learning model which uses classification algorithm to forecast the number of orders to gather raw materials for the next 10 weeks. |
| • | Appropriate data is gathered from relevant datasets which includes information about food delivery services in any area, meal information, price for each meal and discount of meals  in a particular week. |
| 3 | Novelty / Uniqueness | • | The system automatically updates customer information. |
| • | Data is evaluated to forecast the raw materials. |
| • | User friendly interface. |
| 4 | Social Impact / Customer Satisfaction | •  • | The amount of food wasted in the food sector will be reduced. Increase in client profits. |
| • | Decrease raw material waste. |
| 5 | Business Model (financial Benefit) | • | After examining the food-related data for each location, it will  determine which location was most in demand |
| • | Highly profitable. |
| • | High inventory turnovers can be made with proper analysis. |
| 6 | Scalability of Solution | • | The customer gains advantages from the analysis of industry  data. |