

**Project Design Phase-I**  
**Proposed Solution Template**

<b>Date</b>	18 October 2022
<b>Team ID</b>	PNT2022TMID44529
<b>Project Name</b>	Demand Est-AI Powered Food Demand Forecaster
<b>Maximum Marks</b>	4 Marks

**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.

<b>S. No</b>	<b>Parameter</b>	<b>Description</b>
1	Problem statement (problem to be solved)	<ul style="list-style-type: none"><li>• Perishable raw materials must be handled daily by a food delivery service provider.</li><li>• Therefore, it is crucial to forecast the number of raw materials required for meal orders.</li></ul>
2	Idea / Solution description	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>
3	Novelty / Uniqueness	<ul style="list-style-type: none"><li>• The system automatically updates customer information.</li><li>• Data is evaluated to forecast the raw materials.</li><li>• User friendly interface.</li></ul>
4	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>• The amount of food wasted in the food sector will be reduced. Increase in client profits.</li></ul>

		<ul style="list-style-type: none"> <li>• Decrease raw material waste.</li> </ul>
5	Business Model (financial Benefit)	<ul style="list-style-type: none"> <li>• After examining the food-related data for each location, it will determine which location was most in demand</li> <li>• Highly profitable.</li> <li>• High inventory turnovers can be made with proper analysis.</li> </ul>
6	Scalability of Solution	<ul style="list-style-type: none"> <li>• The customer gains advantages from the analysis of industry data.</li> <li>• It offers predictions on the day-to-day analysis of the food that is sold.</li> </ul>