Project Design Phase-I
Proposed Solution Template

Date	28 October 2022
Team ID	PNT2022TMID42688
Project Name	Demand Est-AI Powered Food Demand Forecaster
Maximum 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.

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. • It offers predictions on the day-to-day analysis of the food that is sold.