



## **Project Initialization and Planning Phase**

Date	4 <sup>th</sup> July 2024	
Team ID	739808	
Project Title	Cost Prediction of Acquiring a Customer	
Maximum Marks	3 Marks	

## **Project Proposal (Proposed Solution) template**

In using machine learning to predict customer acquisition costs (CAC), advanced algorithms study past data to estimate how much it will cost to get new customers. By looking at patterns in past marketing, sales, and operational data, these models can predict CAC more accurately than older ways of doing it. This helps businesses use their resources better, improve how they market, and make more money from getting new customers.

Project Overview		
Objective	To Predict the Cost required to acquire a customer for a convenience store or a supermarket.	
Scope	Cost determines if the customer is or could have the potential to become a Regular customer.	
Problem Statement		
Description	To predict the cost that will determine the permanent acquisition of a customer.	
Impact	Increase in number of customers on a daily basis which leads to increase in sales and profits quarterly.	
Proposed Solution		
Approach	Using the data of sales and customers through the dataset and run Machine Learning(ML) model to predict the cost of acquiring a new customer.	
Key Features	The ML model uses particular parameters, eg; store city, food category etc to determine new customer's cost.	

## **Resource Requirements**





Resource Type	Description	Specification/Allocation	
Hardware			
Computing Resources	CPU/GPU specifications, number of cores	e.g., 11thGen Intel(R) Core i3, 2	
Memory	RAM specifications	e.g., 8 GB	
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD	
Software			
Frameworks	Python frameworks	e.g., Flask	
Libraries	Additional libraries	e.g., numpy,pandas,sklearn	
Development Environment	IDE, version control	e.g., Google Colab,Spyder	
Data			
Data	Source, size, format	e.g., Kaggle dataset, excel sheet	