

Project Initialization and Planning Phase

Date	23 September 2024
Team ID	LTVIP2024TMID24997
Project Name	Cereal Analysis Based on Ratings by using Machine Learning Techniques
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

In this project, machine learning techniques are employed to analyze cereal ratings and provide insights for consumers and manufacturers. The dataset consists of various attributes such as nutritional content, brand, and consumer ratings for different cereal products. The goal is to build predictive models that can classify cereals based on their ratings and identify key factors that influence consumer preferences. By leveraging machine learning algorithms, such as classification and clustering, the project aims to uncover patterns in the data to assist consumers in making informed choices and help manufacturers in product development and marketing strategies.

Define Problem Statements (Customer Problem Statement Template) Example:

I am	I'm trying to	But	Because	Which makes me...
A cereal manufacturer	Improve my cereal product ratings	I lack insights into key rating	I have limited data analysis capabilities	Uncertain about product improvements

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A cereal manufacturer	Improve my cereal product ratings	I lack insights into key rating	I have limited data analysis capabilities	Uncertain about product improvements

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes Me feel
PS-2	A health-conscious consumer	Choose the healthiest cereal option	I'm overwhelmed by nutritional data	I don't know which factors are most important	Confused and frustrated