# Model Development Phase Template

| Date | July 2024 |
|---|---|
| Team ID | 739929 |
| Project Title | Cerala analysis based on ratings by using meachine learning techniques |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

| Feature | Description | Selected (Yes/No) | Reasoning |
|---|---|---|---|
| Name | The name of the cereal | No | The name itself might not contribute to nutritional or display information. |
| Manufacturer | The company that produces the cereal | Yes | Helps identify the brand and quality standards associated with the product. |
| Type | The type of cereal (e.g., cold, hot). | Yes | Important for consumer preference and storage conditions. |

| | | | |
|---|---|---|---|
| Calories | Number of calories per serving | Yes | Essential for dietary and health-conscious consumers. |
| Protein | Grams of protein per serving. | Yes | Important for nutritional value and dietary requirements. |
| Fat | Grams of fat per serving | Yes | Key for consumers monitoring fat intake. |
| Sodium | Milligrams of sodium per serving | Yes | Important for those monitoring sodium intake for health reasons. |
| Fiber | Grams of dietary fiber per serving | Yes | Crucial for digestive health and dietary needs. |
| carbohydrate | Grams of carbohydrates per serving. | Yes | Vital for energy content and dietary planning. |
| sugars | Grams of sugars per serving. | Yes | Important for consumers managing sugar intake. |
| potassium | Milligrams of potassium per serving | Yes | Necessary for overall health and dietary balance. |

| vitamins | Percentage of daily vitamins per serving. | Yes | Important for nutritional value and health benefits. |
| --- | --- | --- | --- |
| shelf | Display shelf(1,2,or 3,counting from the floor) | Yes | Relevant for merchandising and ease of access in stores. |
| Weight | Weight in ounces of one serving | Yes | Important for portion control and packaging. |
| Cups | Number of cups per serving | Yes | Useful for understanding serving size and portioning. |
| Rating | Consumer rating of the cereal | Yes | Important for gauging consumer satisfaction and product quality. |