Project Problem Statement: -

Analysis of chocolate qualities based on survey

Introduction: -

The above test will be carried out for responses of two groups of people amateur and expert. We have the data of rating of chocolate based on its quality. These ratings are from armatures and experts and 0-10 scale were used for quantifying responses. There are responses for 14 quantified qualities for each response. Data cleaning Analysis and Clustering Analysis will be used for identifying whether experts perceive supermarket chocolate differently than armatures.

Programming Language: -

I am using RStudio to analyze the dataset

Dataset: -

- **Input-**
  1)Chocolate Aroma 2) Milk Aroma 3) Sweetness 4) Acidity 5) Bitterness 6) Chocolate Flavour 7) Milk Flavour 8) Caramel Flavour 9) Vanilla Flavour 10) Astringency 11) Crispy Texture 12) Melting Texture 13) Sticky Texture 14) Granular Texture
- **Output-**
  1)Quality (Score between 0 and 10)

Method Introduction: -

1. Load the Data into R Studio
2. STR Function is used to identify factors in a group
3. As data comes from a survey for a different group of Tastes, we will try to do Correlation test
4. Then we will perform
   - Boxplot
   - Summary
   - Histogram
   - mean and median
   - Scatter plot
   - K-means clustering

5. Conclusion