

Milk Quality Prediction

Problem statement:

Develop the classification model to predict the quality of milk.

- perform data exploration, preprocessing and visualization
- implement Classification algorithms using sklearn library
- evaluate the model using appropriate performance metrics
- develop a Milk quality prediction system

About dataset

This dataset is manually collected from observations. It helps us to build machine learning models to predict the quality of milk.

This dataset consists of 7 independent variables ie pH, Temperature, Taste, Odor, Fat, Turbidity, and Color.

Generally, the Grade or Quality of the milk depends on these parameters. These parameters play a vital role in the predictive analysis of the milk

Target

Low (Bad)

Medium (Moderate)

High (Good)

If Taste, Odor, Fat, and Turbidity are satisfied with optimal conditions then they will assign 1 otherwise 0.

Temperature and pH are given their actual values in the dataset.

We have to perform data preprocessing, and data augmentation techniques to build statistical and predictive models to predict the quality of the milk.