

1. Product recommendation engine to suggest products to customers based on their browsing or purchase history.

- **Recommendation System for Grocery Store using Python Apriori Algorithm - Machine learning**

Steps:

- **Importing libraries numpy and pandas**
- **Reading Grocery Store dataset**
- **Checking count of null values**
- **Converting data frame(df) values to list and removing header**
- **Creating new list with name “T”**
- **Appending data frame(df) values(which are in string format) to new list(T)**
- **Using if condition to remove nan values(pre-processing step)**
- **Importing apriori from apyori**
- **Setting support to 0.03(3%)**
- **Setting confidence to 0.35(35%)**
- **Lift=confidence/support (lift set to 3)**
- **Minimum length is the number of recommendation of product count.(it set to 2) this means it recommended at least 2 product**
- **This all is stored in “rule” variable**
- **Checking and analysing recommendation**

Reference:

<https://www.youtube.com/watch?v=EFXeID-jZrQ>