Market Basket Analysis

A Case Study of a Bread Store

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Topic



- Dataset
- Exploratory Data Analysis
- Apriori Algorithm
- Recommendation

Dataset

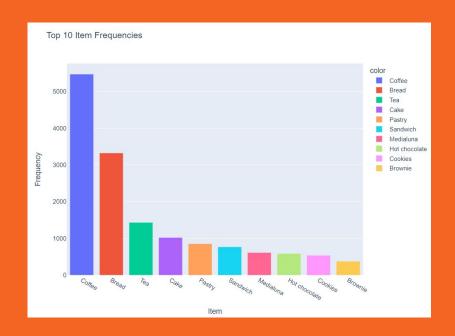


- This dataset is from Kaggle
- This is the bakery data with the list of items bought by customers

The Bread Basket: https://www.kagqle.com/datasets/mittalvasu95/the-bread-basket

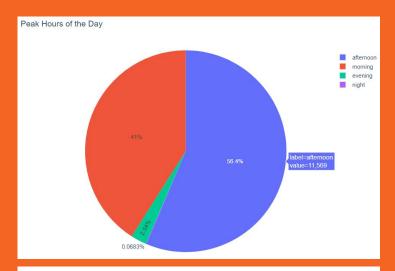
Exploratory Data Analysis

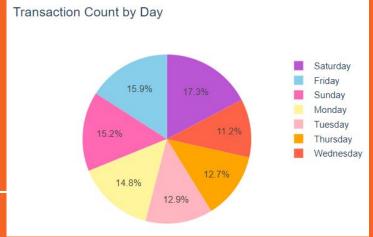
 The most frequently sold items are Coffee, Bread, Tea, Cake, and Pastry



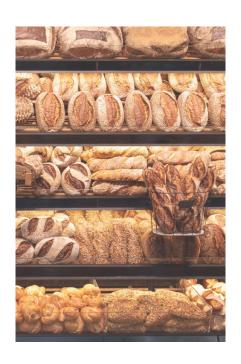
Exploratory Data Analysis

- Customers mostly buy in the afternoon
- Saturday, Friday, and Sunday are the top three selling days





Apriori Algorithm



- Support is an indication of how frequently the itemset appears in the dataset
- Confident is an indication of how often the rule has been found to be true
- Lift is the ratio of the observed support to that expected if X and Y were independent

Recommendation



