Computational Gastronomy

Coding Assignment 3

You may use Python and Jupitor Notebook as an IDE for completing the assignments and documentation.

Note: You are responsible for the backup of data as well as results, which will be used for evaluation.

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1. For the data of recipes from Kaggle:
   (a) Apply the **apriori algorithm** to item sets and their support values. **[5]**
   (b) Find the top itemsets with best support for set size of 1, 2, 3, 4, and 5. **[2]**
   (c) What are your interpretations based on these observations. **[5]**

2. **Starting with the Kaggle data** implement the following:
   (a) Create a random control (R_0) to preserve the number of ingredients, the number of recipes, and the recipe size distribution. **[5]**
   (b) Create a random control (R_1) to preserve the frequency of use of ingredients (popularity) in addition the factors preserved in R_0. **[8]**