Data Structuring

February 12, 2021

Objectives

- 1. Extract corpora from the food description text from the all the meals that contain seafood. Structure the corpora according the text patterns in the description. Questions: Is this an acceptable method for the analysis? The text after the comma seems descriptive of the food item, in the context of preparation method.
- 2. Obtain some descriptive statistics from the corpora. Identify potential issues that are relevant to the analysis objectives and address these issues.
 - (1) Obtain most frequent words from corpora and seek potential issues. For example, should beverages be included? Maybe all caloric beverages (everything except water)?
 - (2) Obtain the longest strings from the corpora, to identify patterns for simplification and categorization.
 - (3) Obtain the least frequent words from the corpora, and seek potential issues. The least used words will most likely be a unique entry that can be grouped into another dish.
 - (4) Is there any interest in the descriptive food item text beyond the first comma?

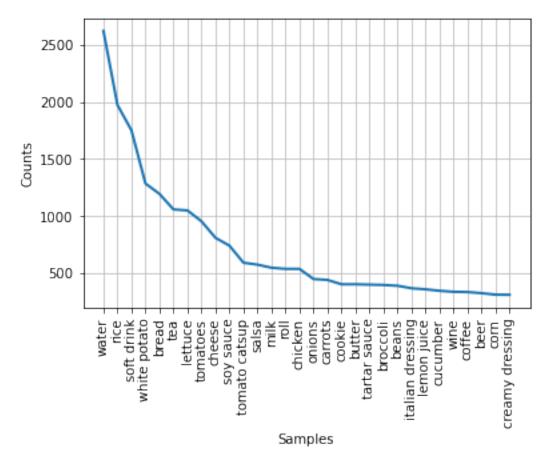
```
[1]: import pandas as pd
import re
import nltk

#Read filtered dataframe
nhanes = pd.read_pickle('../../Data/nhanes_post.pkl')

#Obtain dataframe with seafood items
seafood_df = nhanes[nhanes['DR1I_PF_SEAFD_TOT'] > 0]
#Obtain dataframe with side dishes
side_dish_df = nhanes[nhanes['DR1I_PF_SEAFD_TOT'] == 0]

"""

Obtain initial test corpus for the whole meal, seafood item only, and side_\to \to dishes only
Obtains the first word in the text description string before a comma, if comma_\to \to exists.
Obtains the whole string in the text description if comma is not present.
"""
```



[1]: <matplotlib.axes._subplots.AxesSubplot at 0x7f8c63ac9250>

Conclusions