Recipes of AFA

Recommender System For Recipes

Introduction

-Do you want to try food from around the world?

-Are you excited to try different recipes of you favorite dishes?

“Recipes of AFA” is a recommendation system for recipes that can help you choose what to cook

Based content method

Methodology

Clean Data

CountVectorizer

- LSA
- NMF

TF-IDF Vectorizer

- LSA
- NMF

Data

allrecipes.com

- 40,000 recipes
- Each recipe include ingredients and instructions
- Found recipe stopwords and remove them from ingredients

Based content method

Count-Vectorizer

LSA

recipe: Best Chocolate Chip Cookies

	title
3	Best Chocolate Chip Cookies
29494	Chocolate Wafer Cookies
20409	Quick Chocolate Chip Cake
1866	Oatmeal Chocolate Chip Cookies III
27315	Colonial Innkeeper's Pie
...	...
19868	Chicken with Roasted Red Peppers
37706	Tomato and Spinach Quinoa Skillet
6204	Spinach Pesto Chicken Breasts
17951	Shaggy's Perfect Martini
25924	Yummy Pasta Salad

Based content method

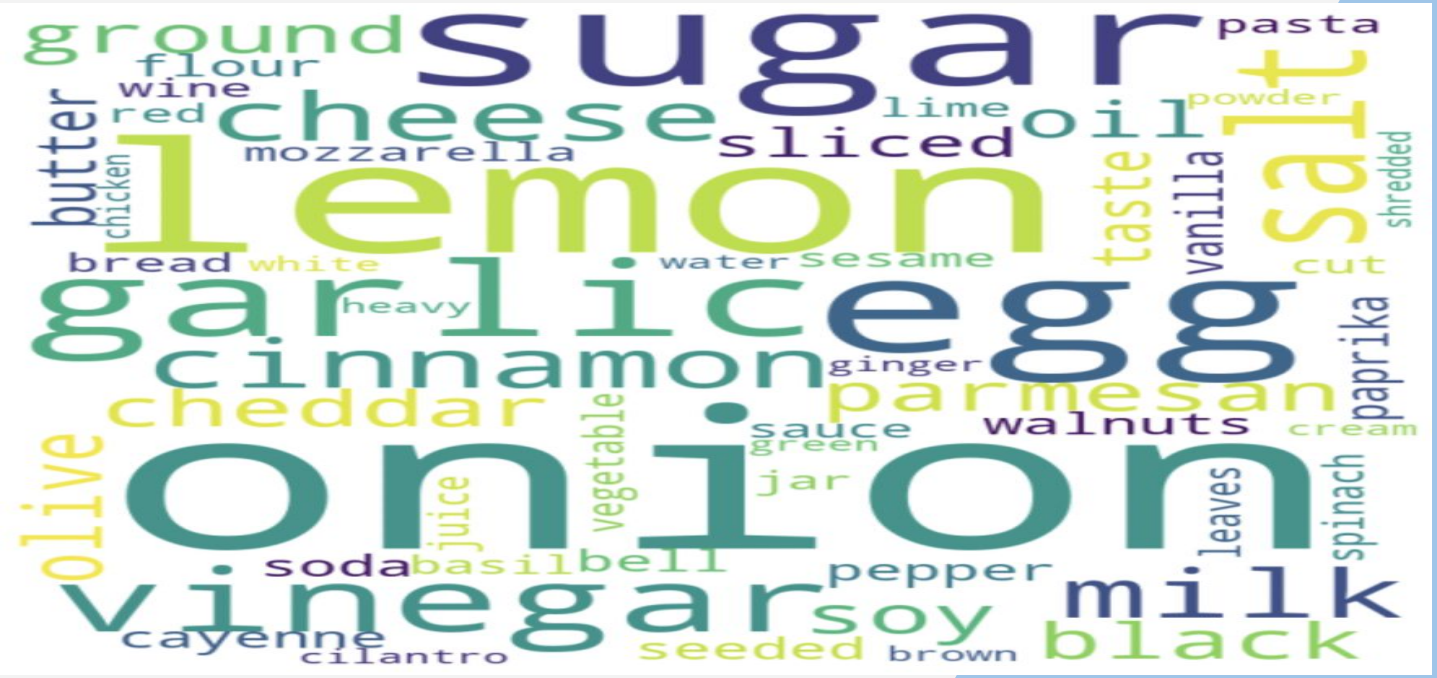
TF-IDFVectorizer

LSA

recipe: Best Chocolate Chip Cookies

	title
3	Best Chocolate Chip Cookies
25949	Peppermint Bark Cookies
15961	Chocolate Chip Cookies IV
21882	Blue Ribbon Chocolate Chip Cookies
16984	Richest Ever Chocolate Pound Cake
...	...
25806	Low-Carb Hot Dog and Dipping Sauce
28105	Captain's Seafood Crab Dip
19522	Easy, Dynamite Cauliflower Curry
3296	Baked Ham
37173	Easy Holiday Ham

Topics Into Word Clouds



Conclusion

The TF-IDF vectorized data with LSA gives better recommendations

Future Work

Search for recipes by ingredients and cuisine type