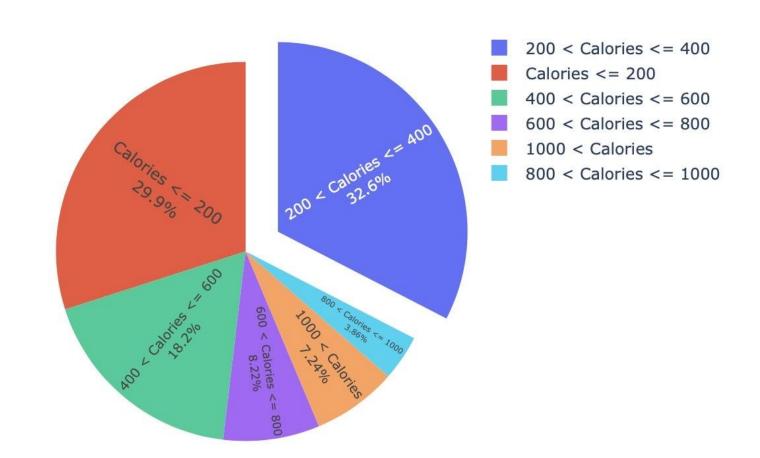


View of Dataset

Calories for Database

- 180k + recipes
 - Tags
 - Ingredients
 - Cook Time
 - Nutrition
 - Date



View of Dataset

- 700k+ reviews
 - Comment
 - Rating

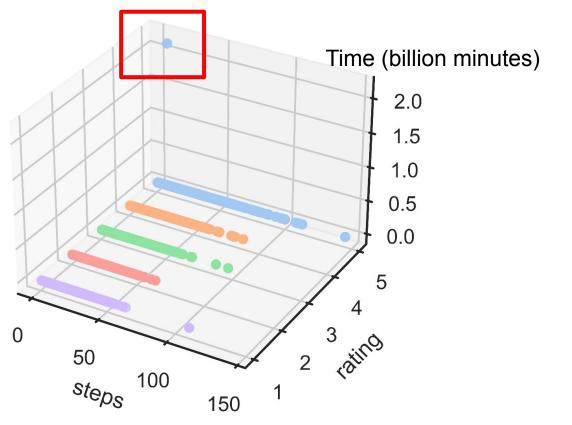
Word cloud of Rating 5

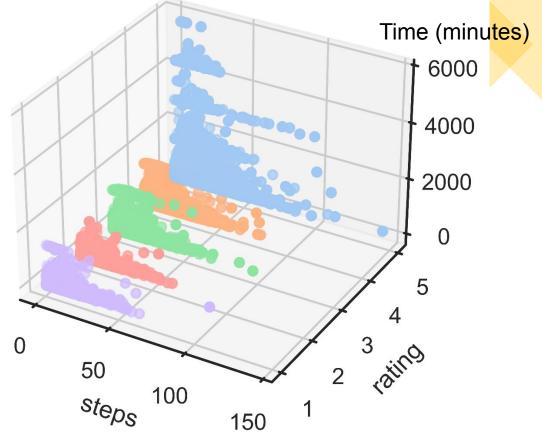


Data Cleaning

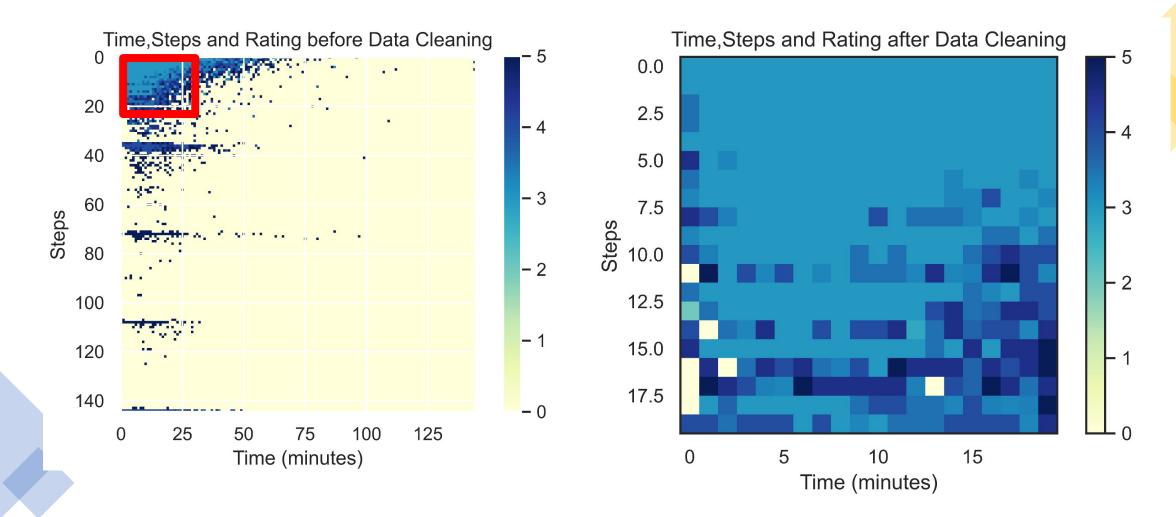
Steps, Time and Rating after Data Cleaning

Steps, Time and Rating before Data Cleaning





Data Cleaning

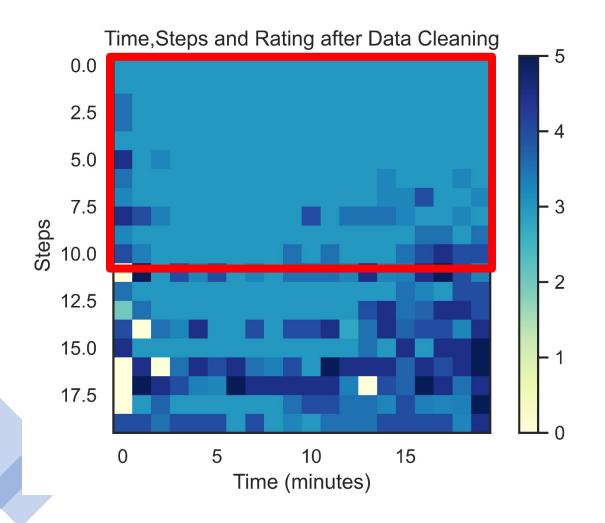


Desired Insights

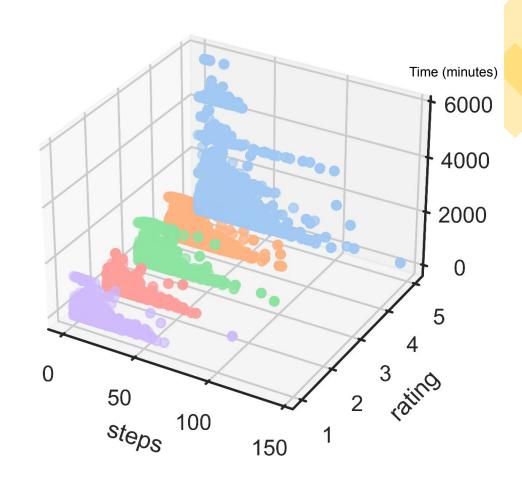
- Why do some recipes get a high rating?
 - How do the nutrition values influence rating?
 - How do cook time and ingredients influence rating?
- What is changing over years?
 - How does nutrition change over submission year?
- Above analysis used for recommending highly rated recipes.

Why recipes get a high rating?

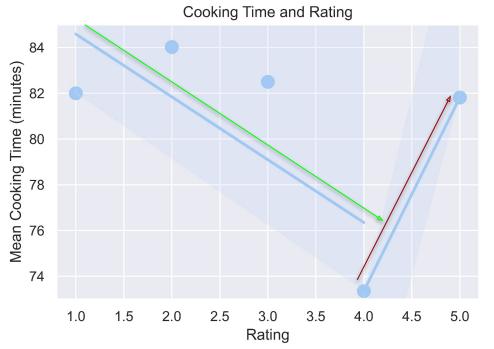
Complexity and Rating

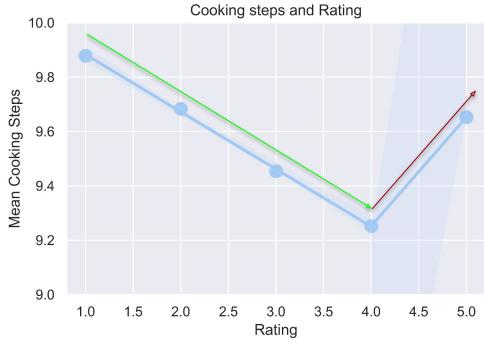


Steps, Time and Rating after Data Cleaning



Complexity and Rating

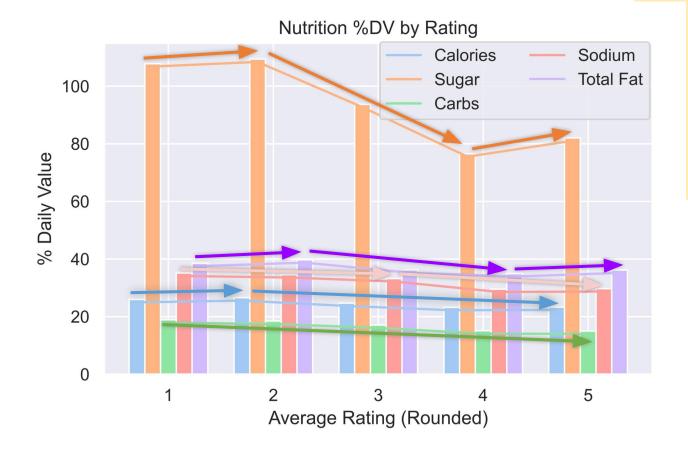




- Fewer steps and faster recipes lead to higher ratings.
- In order to get the full 5 stars, recipes are often more involving.

Nutrition and Rating

- In general, healthier recipes are higher rated.
- Carbs and Calories decrease the most for higher ratings.

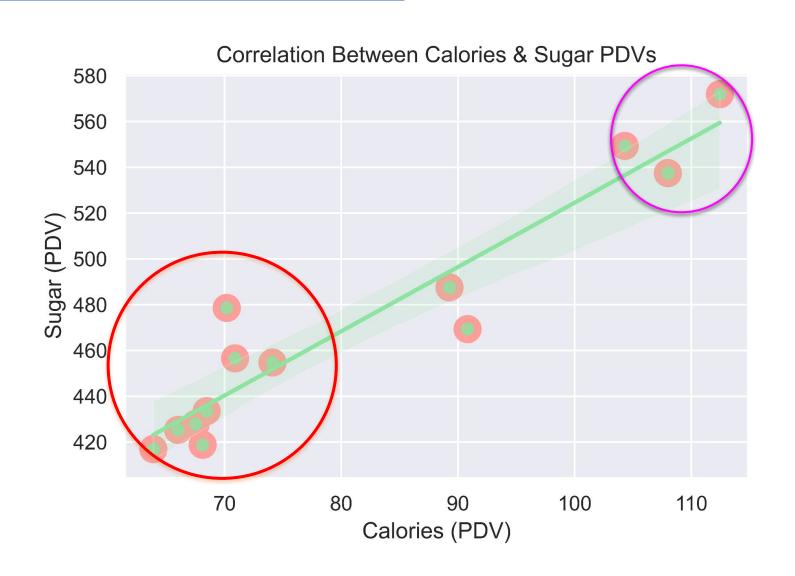


What is changing over the years?

Change in Nutrition



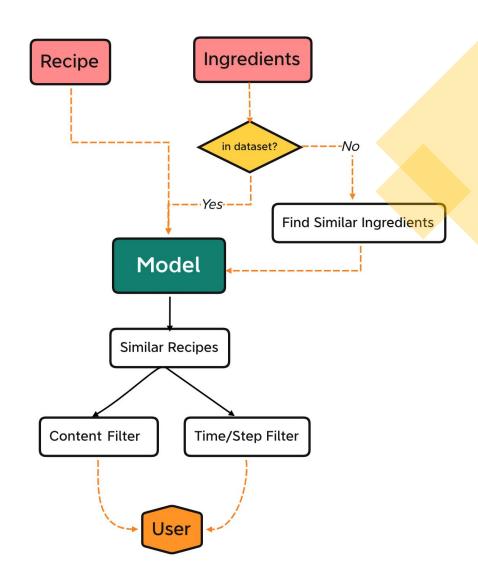
Change in Nutrition



Recommendation system

Recommendation

- Users can choose to recommend based on ingredients, cook time, or nutritional value.
- Ingredients can be substituted in case a desired ingredients has not been seen in a previous recipe.
 - Replaces lettuce heart with lettuce etc.



Recommendation Example

- For the PERFECT CHOCOLATE CAKE recipe, Food.com recommends very unsimilar recipes.
- Our recommender system get more reasonable results.

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tex mex chocolate sheet cake the best



sheet wanda s cutout cream cookies



hershey's chocolate chocolate cake



rich chocolate cake



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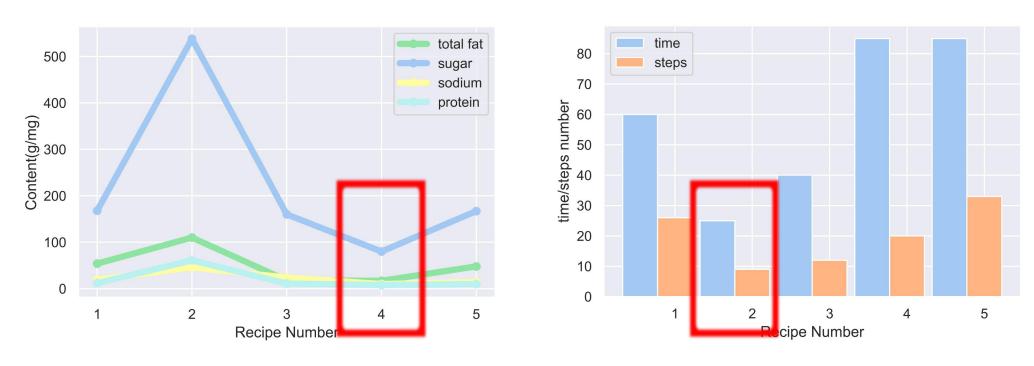
Food.com

Our model

First Recommend Comparison

"PERFECT CHOCOLATE CAKE"	tex mex chocolate sheet cake the
MCCALL'S COOKING SCHOOL	best
'all-purpose flour',	'all-purpose flour'
'baking powder',	'baking powder'
'baking soda',	'baking soda'
'boiling water',	'boiling water'
'butter',	'butter'
"confectioners' sugar",	'buttermilk'
'eggs',	'eggs'
'heavy cream',	'heavy cream'
'light cream',	'mexican chocolate'
'salt',	'salt'
'semisweet chocolate pieces',	'pecans',
'sugar',	'sugar',
'unsweetened cocoa',	'unsweetened cocoa',
'vanilla',	
'vanilla extract'	'vanilla extract'

Recommendations comparison



• Users can choose from five recommended recipes based on the content and the time/steps.

