

Midterm Project Recipe Generator

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Introduction

This is an interactive tool for searching recipes created using the Yummly API (Student version)

Problem:

-Busy students/ full time workers living alone want to minimize time and effort choosing and cooking dishes to make at home.

Solution:

This interactive program will assist users with selecting recipes by allowing:

- 1) A search for a specific recipe. The user will be given a link that leads to a page with relevant recipes from order of popularity
- 2) A search for recipes with ingredients he/she already has in the kitchen. 10 highly rated recipes with the entered ingredients that require less than 50 minutes of cooking time will be generated. Data set and visuals will be presented to assist the user with selecting one recipe from the list.

Data/ Visual Tools

This project will be focused on the 2nd option. (searching for recipes with specific ingredients the user inputs)

Example search:

Prompt: “What ingredients do you have? (Separate item with only spaces.)”

Input: mushroom chicken onion lemon

The following tools (Data sets and visuals) will be presented to assist the user with selecting one recipe from the given list.

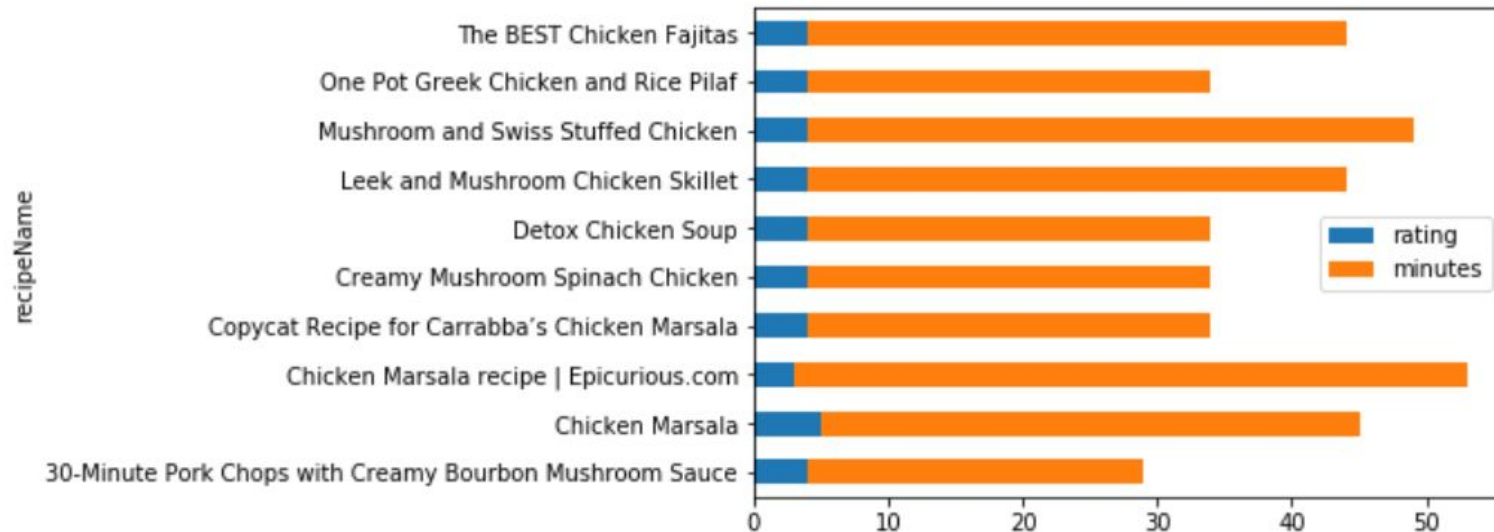
Tool 1

Tool 1: Data set that allows user to see the list of recipe names, rating and time required in minutes.

	recipeName	rating	minutes
0	Chicken Marsala recipe Epicurious.com	3	50.0
1	Chicken Marsala	5	40.0
2	Detox Chicken Soup	4	30.0
3	One Pot Greek Chicken and Rice Pilaf	4	30.0
4	Copycat Recipe for Carrabba's Chicken Marsala	4	30.0
5	Mushroom and Swiss Stuffed Chicken	4	45.0
6	Creamy Mushroom Spinach Chicken	4	30.0
7	30-Minute Pork Chops with Creamy Bourbon Mushr...	4	25.0
8	Leek and Mushroom Chicken Skillet	4	40.0
9	The BEST Chicken Fajitas	4	40.0

Tool 2

Tool 2: A visual that allows the user to compare the rating and time needed for each recipe.



Tool 3

Tool 3: Groceries shopping List. A summary that shows the user how many and which ingredients the user needs to buy

2) Detox Chicken Soup

Number total ingredients 19

Number needed: 17

Stuff to buy: ['olive oil', 'skinless chicken breasts', 'kosher salt', 'freshly ground black pepper', 'carrots', 'celery', 'garlic', 'cremini mushrooms', 'dried thyme', 'dried oregano', 'chicken stock', 'bay leaves', 'orzo pasta', 'rosemary', 'kale', 'cannellini beans', 'fresh parsley leaves']

3) One Pot Greek Chicken and Rice Pilaf

Number total ingredients 30

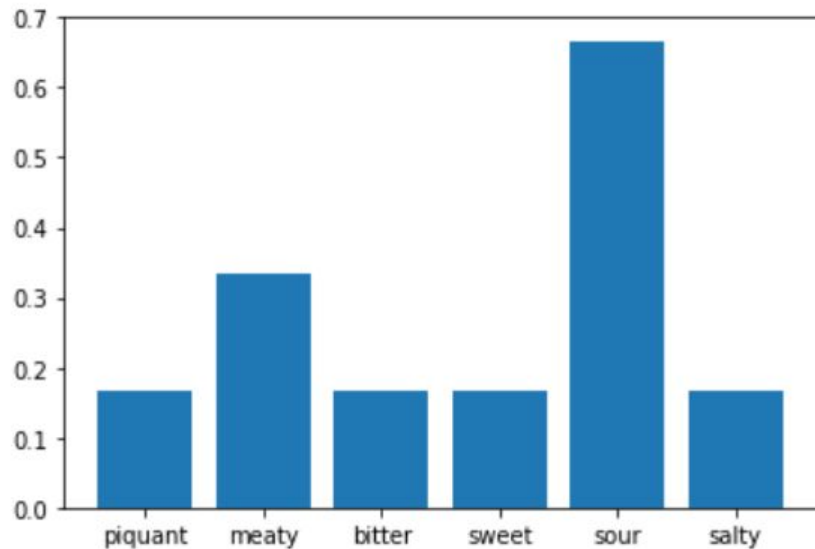
Number needed: 29

Stuff to buy: ['skinless chicken breasts', 'olive oil', 'red wine vinegar', 'minced garlic', 'salt', 'black pepper', 'red pepper flakes', 'fresh oregano', 'butter', 'parboiled rice', 'chicken broth', 'lemon juice', 'chopped parsley', 'boneless, skinless chicken breasts', 'pepper', 'dried thyme', 'mushrooms', 'shallots', 'heavy cream', 'chicken pieces', 'lemon zest', 'orange zest', 'orange juice', 'lime zest', 'lime juice', 'sugar', 'brussel sprouts', 'sweet potatoes', 'salted butter']

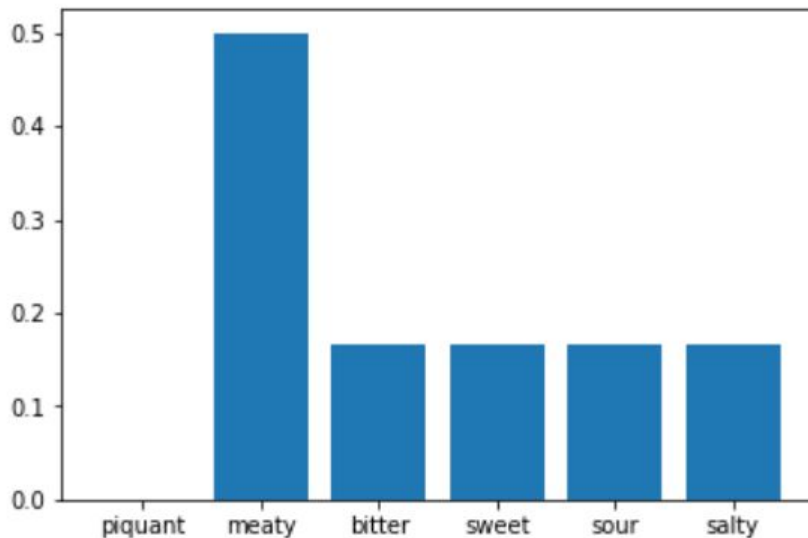
Tool 4

Tool 4: Shows the flavor scores for each recipe.

3) One Pot Greek Chicken and Rice Pilaf



4) Copycat Recipe for Carrabba's Chicken Marsala



Tool 5

Tool 5: Allows user to select recipe and see all relevant information for the specified recipe.

Recipe Name:

Copycat Recipe for Carrabba's Chicken Marsala

Recipes Needed:

['butter', 'chicken breast halves', 'shallots', 'mushroom', 'marsala', 'heavy cream', 'lemon juice']

Rating:

4

Total Time in Minutes:

30.0

Url for picture:

['https://lh3.googleusercontent.com/4b_3dOsZ-PN6gBSDcI_sXEDUcVCNZds19xVKjgkOrB_vS90UKcNF0FWQAG-Hm7Qrj7IB6Y2BoYMcff7YHy4eJw=s90']