Natural Language Processing

Final Project: Recipe Transformer

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How We Represent Recipes

Given a URL of a recipe from AllRecipes.com, we split the recipe into Ingredients and Steps (below)



**Individual steps are NOT represented in our formulation.**



INGREDIENTS

Measure: extracted from a master list of measures (if present)

Quantity: the number before the measure, if measure, or the first number. Not always present. If given “1 (4.5 ounce) can”, will return “4.5” as Quantity and “ounce” as Measure

Preparation: everything after the name (if anything)

Description: everything between the measure and the name (if anything)

Each Ingredient

Weight: a multiplier of how much of the “standard amount” of the ingredient is present. Used in transformations. Defaults to 1.

Name: at each word after measure, make substrings of a few words; if one or more substrings are found in our ingredients master list, takes the longest as the name (this selects “pork chops” over “pork”). If no match found, the entire string after the measure is treated as the ingredient

Techniques: list comprehension of all cooking terms in master list that are found in recipe

RECIPE (steps)

Associated Tools: for particular techniques, add associated tools to tool list even if not mentioned (i.e., “stir” in recipe adds “spoon” to implements.

Tools: list comprehension of all tools in master list that are found in recipe

