

Recipe Discovery System

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Idea



unhealthy pasta

GPS



Google Maps

Query



Cuisine
Suggestion

Recipe
Suggestions

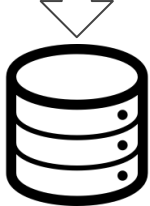
Recipes:

Super healthy alternative

Quite healthy alternative

Another healthy alternative

...



Recipes DB



Data Gathering



Data Cleaning

BBC
FOOD

Recipe
data

```
{ name : "Minestrone",  
  ingredients :  
    [ "chilli",  
      "oil",  
      "haricot beans", ... ]  
  quantities : [  
    { "name" : "oil",  
      "unit" : "tbsp",  
      "qty" : 4 },
```

Extravagant recipe names:

Perfect cauliflower cheese with bacon and mushrooms

Unstructured ingredients:

450ml / $\frac{3}{4}$ pint hot turkey or chicken stock

Yummly™

Cuisine
data

Cuisine - Ingredients

```
{ cuisine : "indian",  
  ingredients :  
    [ "tumeric",  
      "tomatoes",  
      "garam masala",  
      "red lentils",  
      ... ]  
}
```

Ingredient - Cuisines

```
{ ingredient: "pasta"  
  cuisines:  
    [ "Italian": 0.6,  
      "Chinese": 0.05,  
      "Indian": 0.2,  
      ... ]  
}
```

Data collected



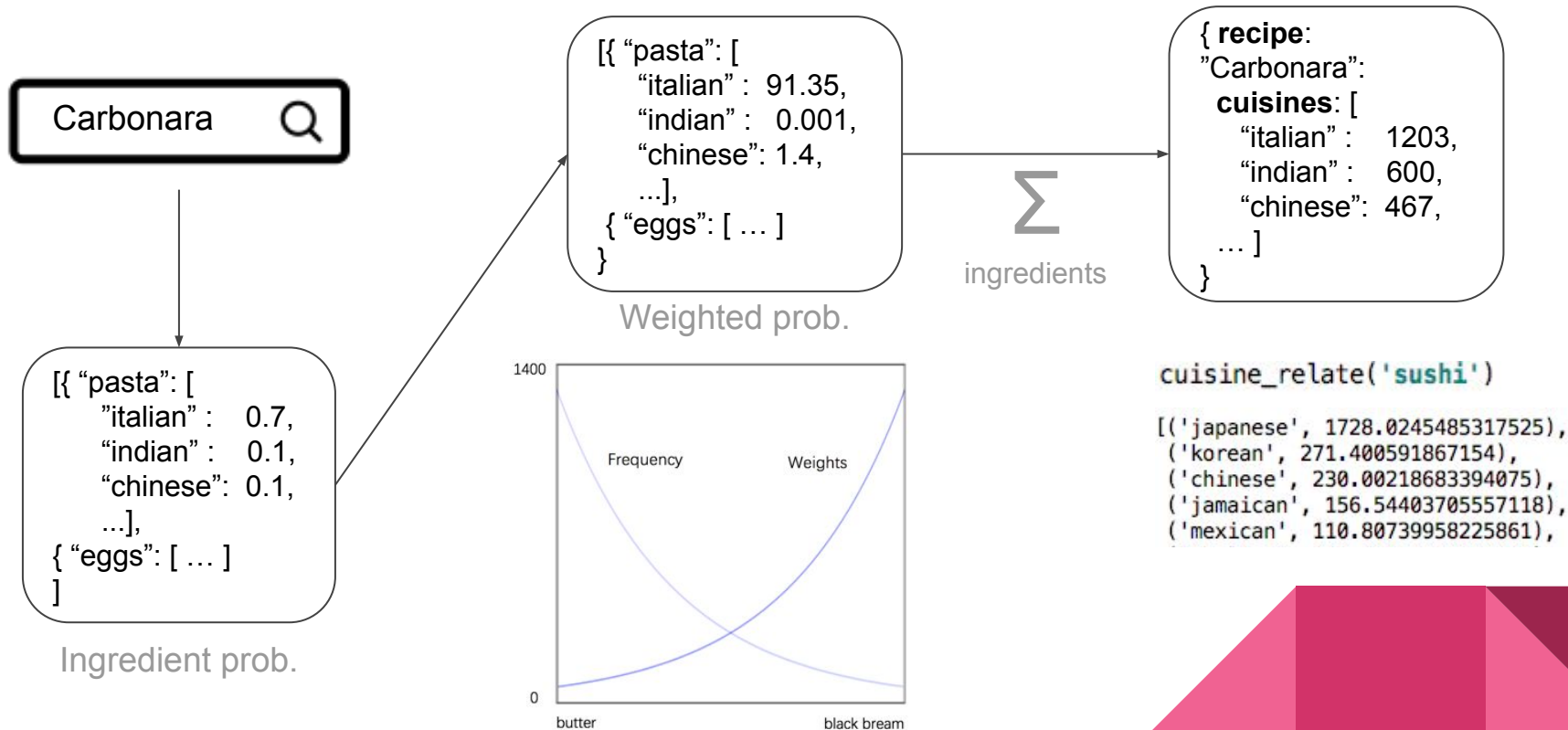
Cuisine information



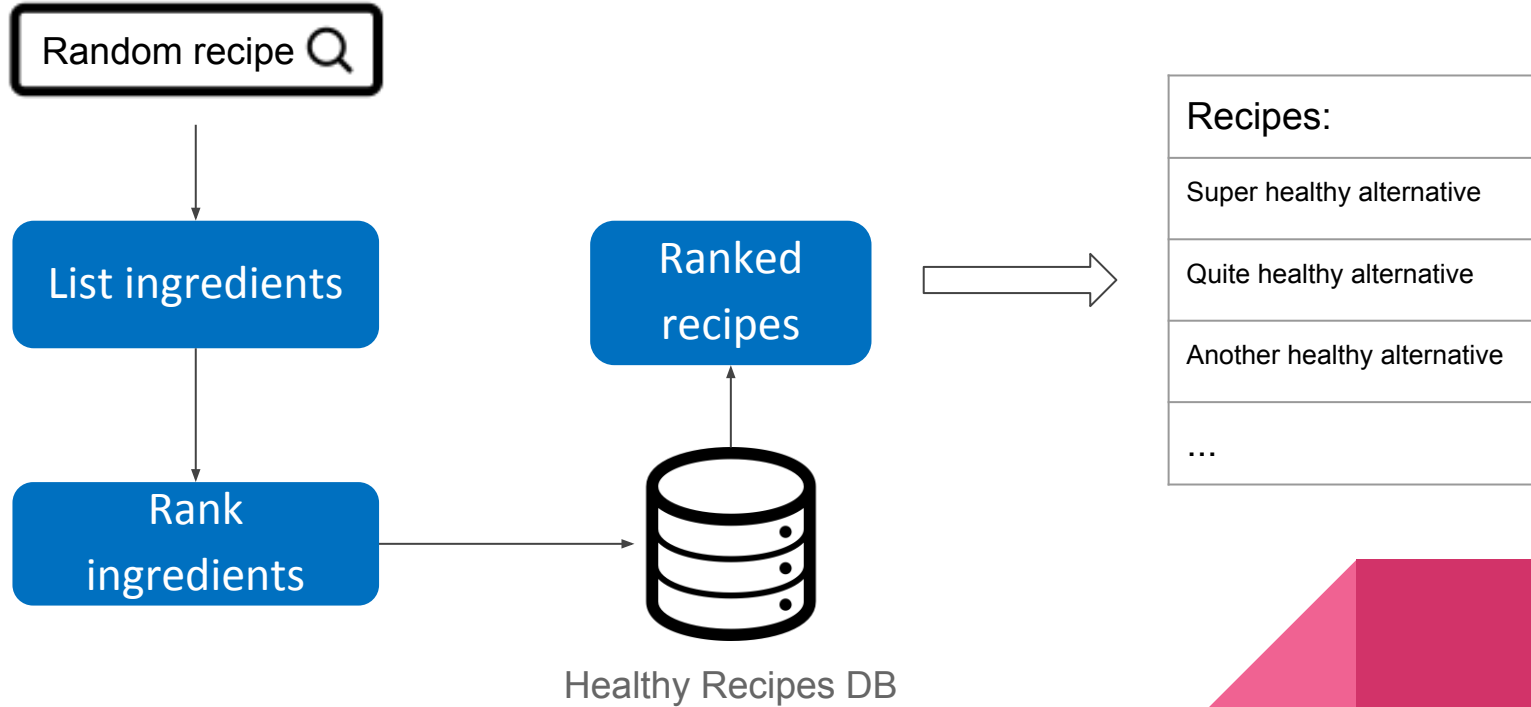
A word cloud of various cuisines, where the size of each word corresponds to its count. The words are arranged in a roughly rectangular shape, with 'italian' and 'mexican' being the largest. The colors of the words alternate between a medium blue and a lighter blue. The counts are shown in parentheses next to each word.

Cuisine	Count
brazilian	467
british	804
cajun	1546
chinese	2673
creole	1546
filipino	755
french	2646
greek	1175
indian	3003
irish	667
italian	7838
jamaican	526
japanese	1423
korean	830
mexican	6438
moroccan	821
russian	489
southern	4320
spanish	989
thai	1539
vietnamese	825

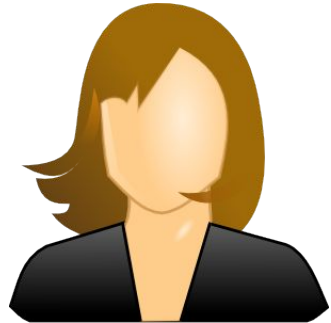
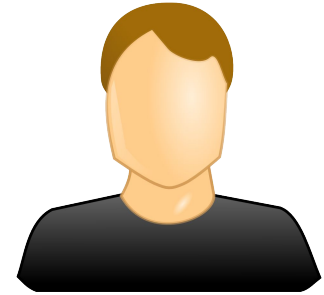
Cuisine Classification



Recipes Suggestion



Product



Users

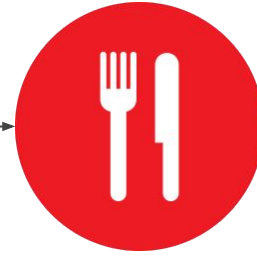
Location

Meal

Cuisine

REST
Request

JavaScript



Restaurants



Alternate
Recipes

Demo



Overview & Future works

- Better datasets
- Partnership : Restaurants vs Supermarkets
- Scalability



Q & A

