



# Make this!

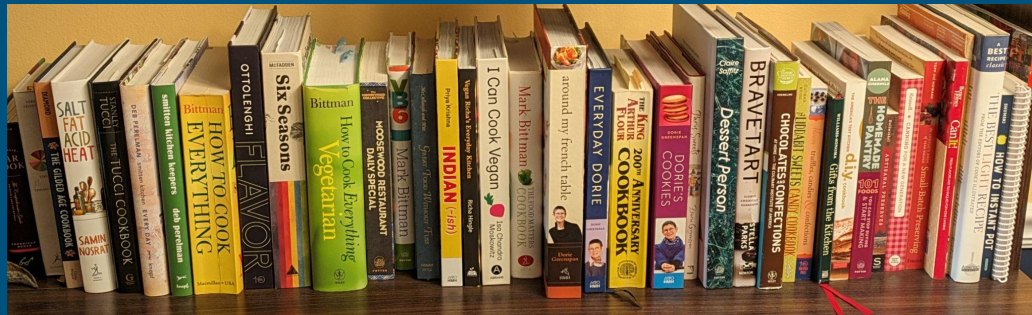


data meets cooking



# Problem statement

---



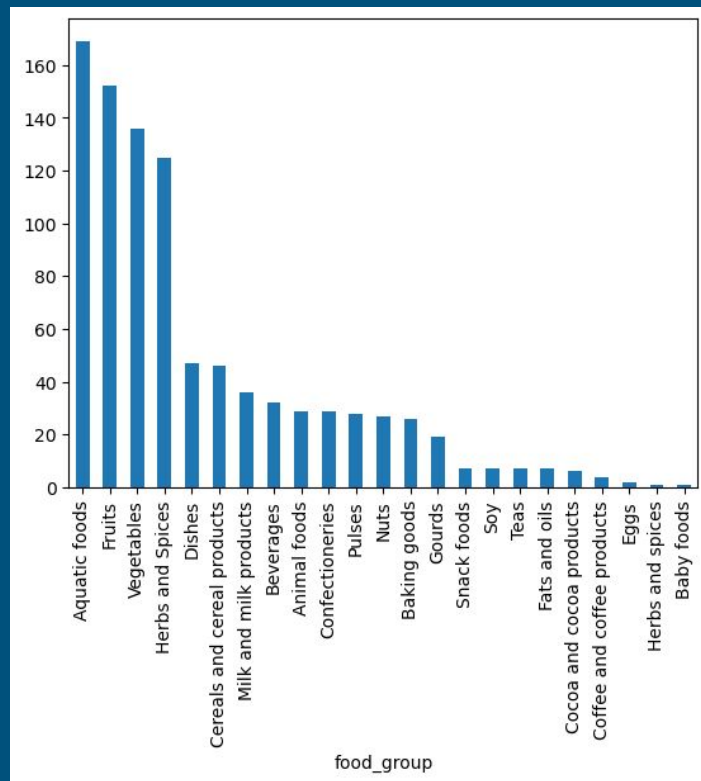
# Data

---



“Food” table  
“Content” table

# FooDB Data



# FooDB Data

---

- LabelEncoder for “food\_group”
- TfidfVectorizer for “all\_text”
- Classifier models worked great!



Photo by [Tungsten Rising](#) on [Unsplash](#)

# Recipe data

---



Photo by [Kelly Sikkema](#) on [Unsplash](#)

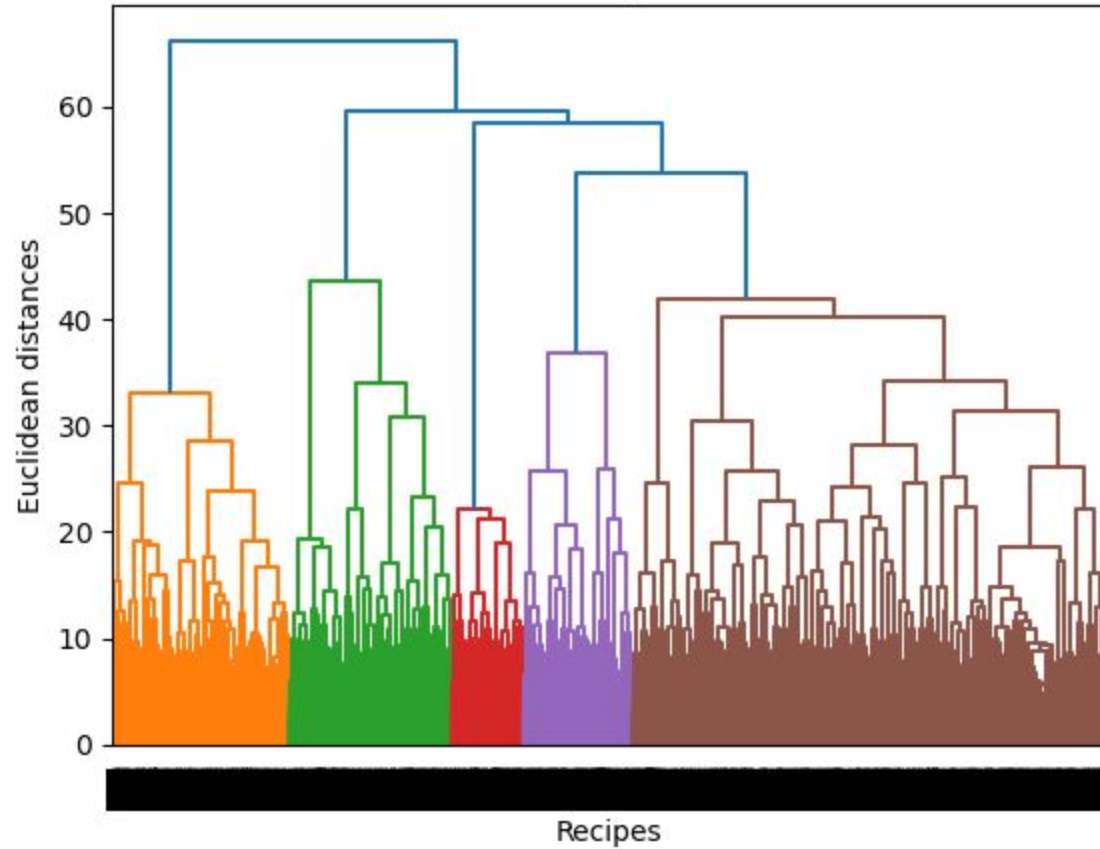


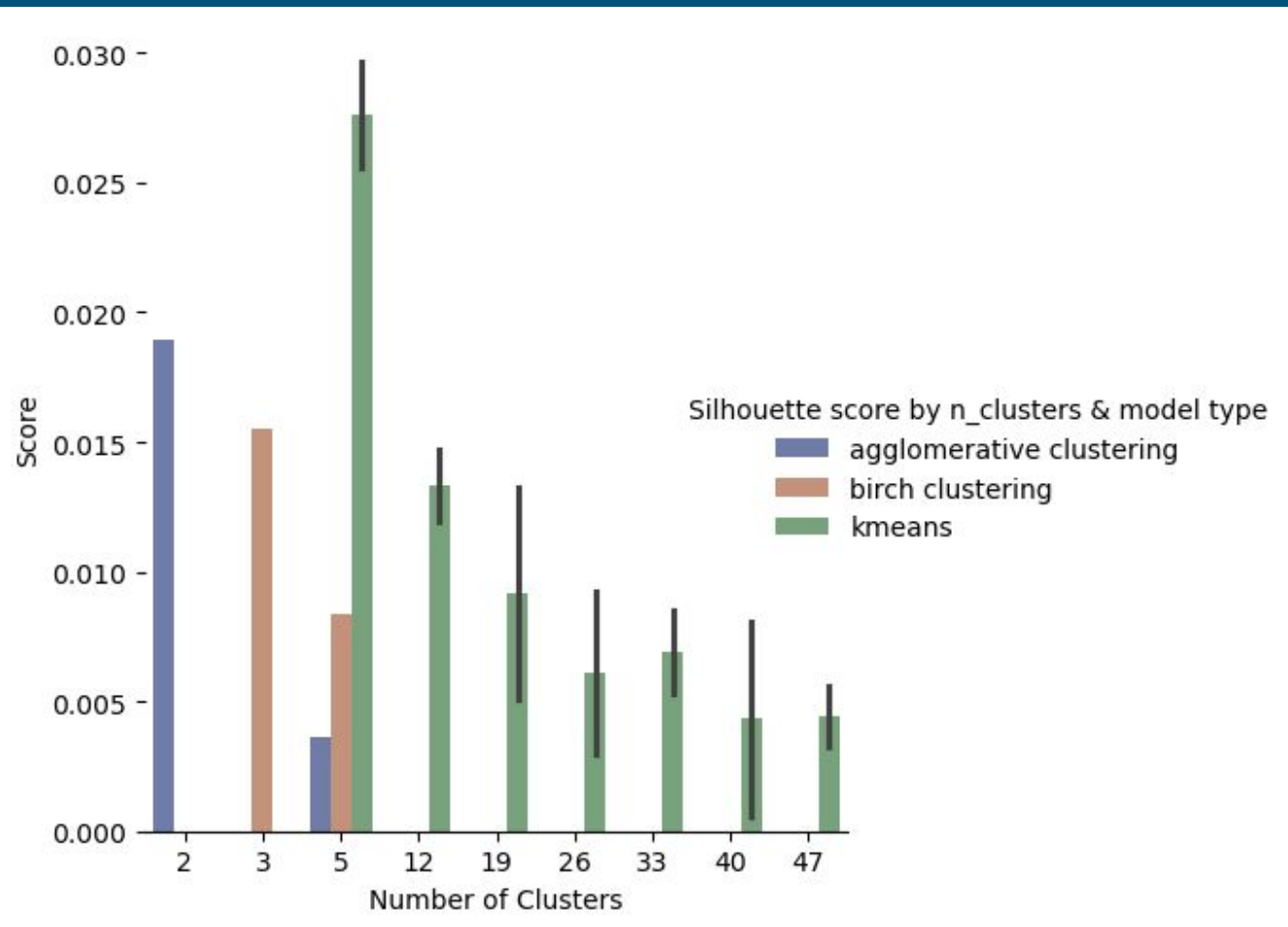
## Tags in recipes





Dendrogram





# Cosine similarity

	recipe_id	ingredient	in_recipe
0	17962	10	1
1	17962	11	1
2	17962	23	1
3	17962	26	1
4	17962	29	1



ingredient	10	101	1015	102	103	104	106	11
ingredient								
10	1.000000	0.266726	0.057712	0.074069	0.162367	0.104770	0.165997	0.499387
101	0.266726	1.000000	0.033912	0.038595	0.086688	0.065697	0.065789	0.007827
1015	0.057712	0.033912	1.000000	0.029814	0.014693	0.001993	0.028006	0.043037
102	0.074069	0.038595	0.029814	1.000000	0.046467	0.011231	0.045089	0.073445
103	0.162367	0.086688	0.014693	0.046467	1.000000	0.063029	0.036189	0.099807

# Make this!

---

{ app demo }

# References

---

API & data resources:

- Edamam API: [developer page](#)
- FooDB: [downloads](#)
- [Kaggle dataset](#)

Blogs & articles:

- [Clustering 101: Understanding BIRCH Clustering Using Jupyter Notebook & Python](#)
- [Byte-Pair Encoding: Subword-based tokenization algorithm](#)