

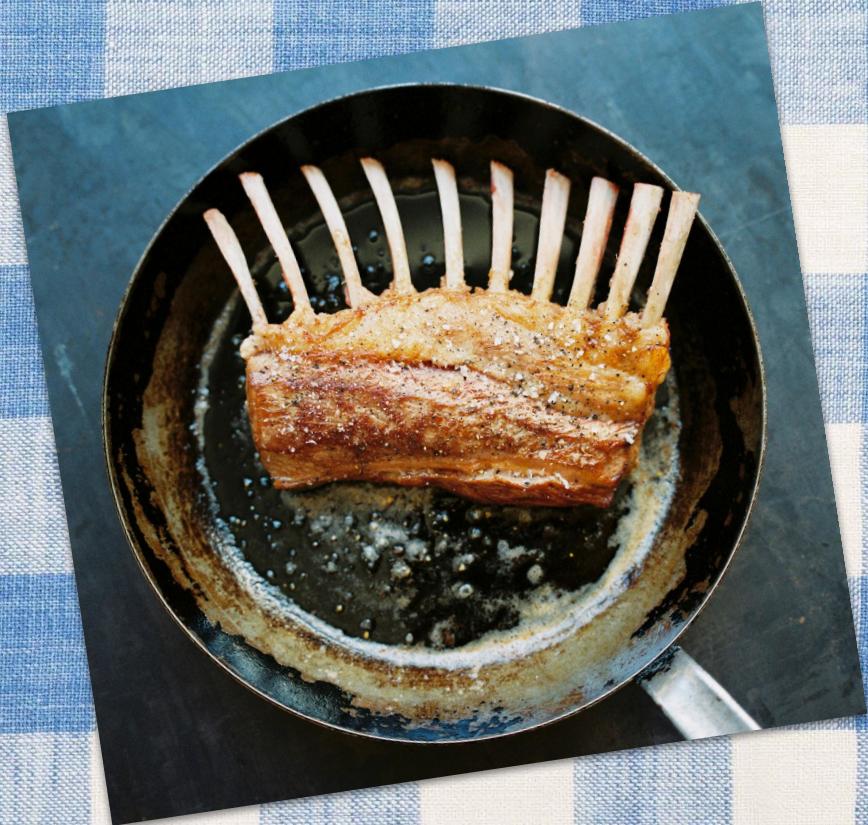
Presentation 1

Preliminary Exploratory Analysis

Group 6 - Baiheng Chen, Ziang Zhang, Ruizhen Jing

Step 1: Data Selection & Data Cleaning





Category	Counts
Restaurants	52268
Food	27781
Shopping	24395
Home Services	14356
Beauty & Spas	14292
Health & Medical	11890
...	...



Category	Count
Nightlife	9325
American (Traditional)	8193
American (New)	6097
Italian	4573
Specialty Food	4233
...	...



City	Counts
Philadelphia	505
Tampa	212
Saint Louis	161
Edmonton	160
Tucson	153
...	...

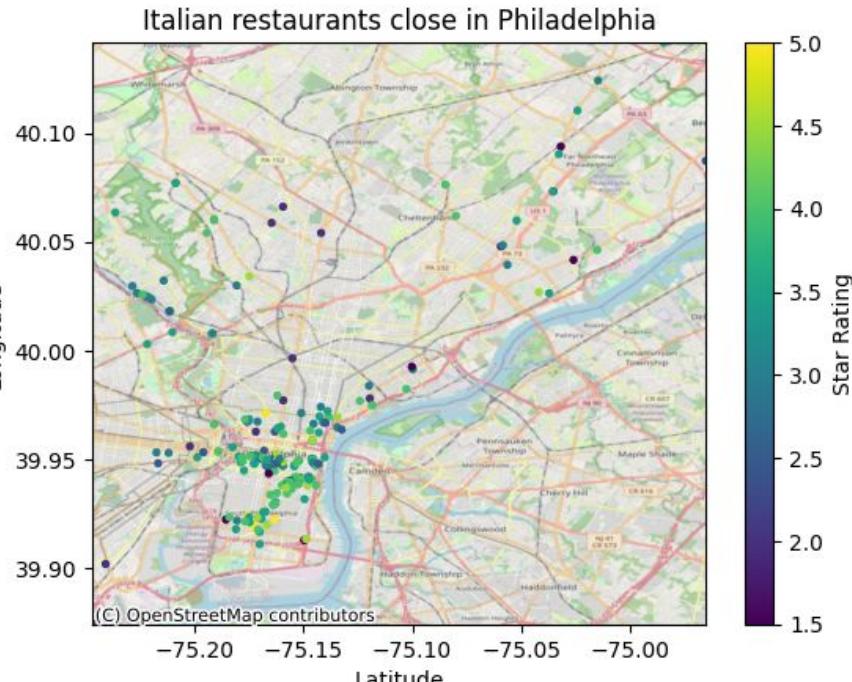
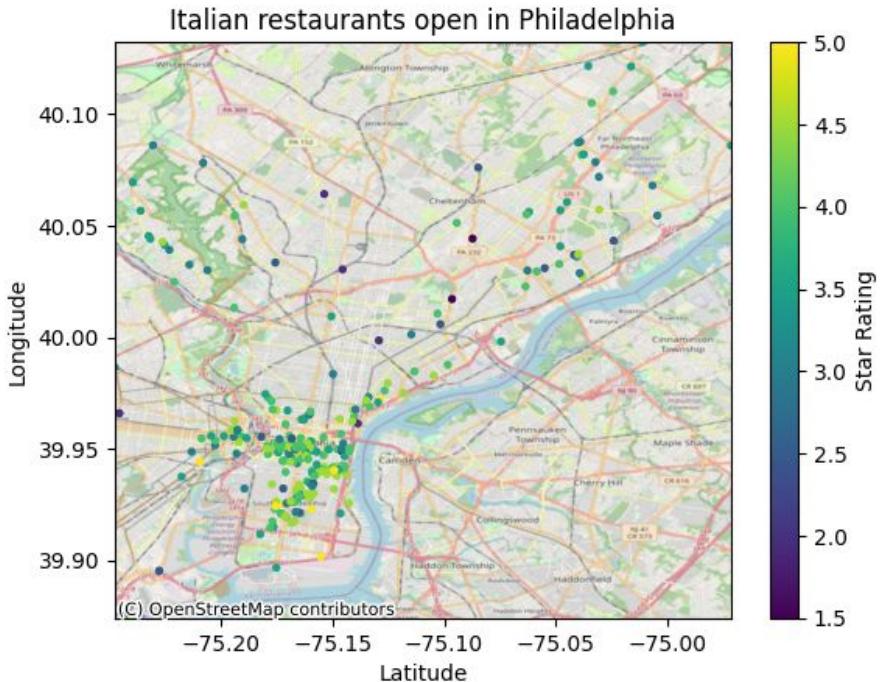
	Is Open		Is Closed	
	Business	Review	Business	Review
>=500	29	29050	8	6463
>=100	137	53499	67	18194
>=50	189	57305	106	21001
>=10	263	59349	195	23296



Step 2: Exploratory Data Analysis

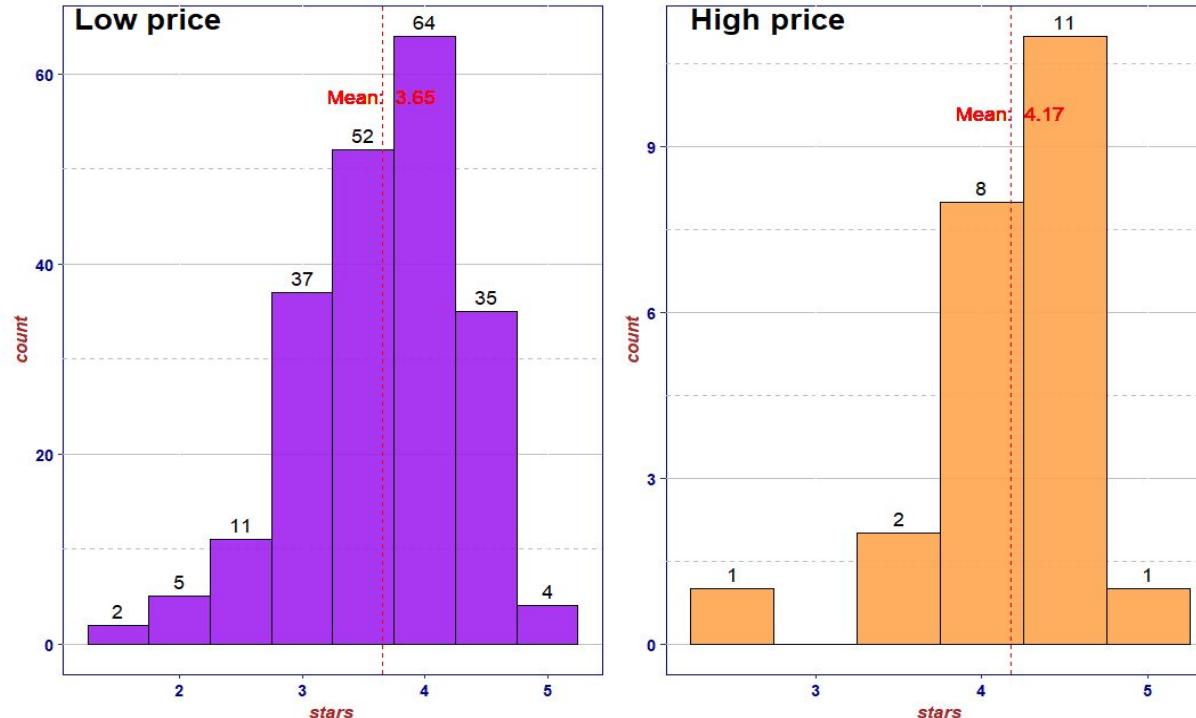


Example 1: Whether geography of an Italian restaurant affects its success and rating



Example 2:

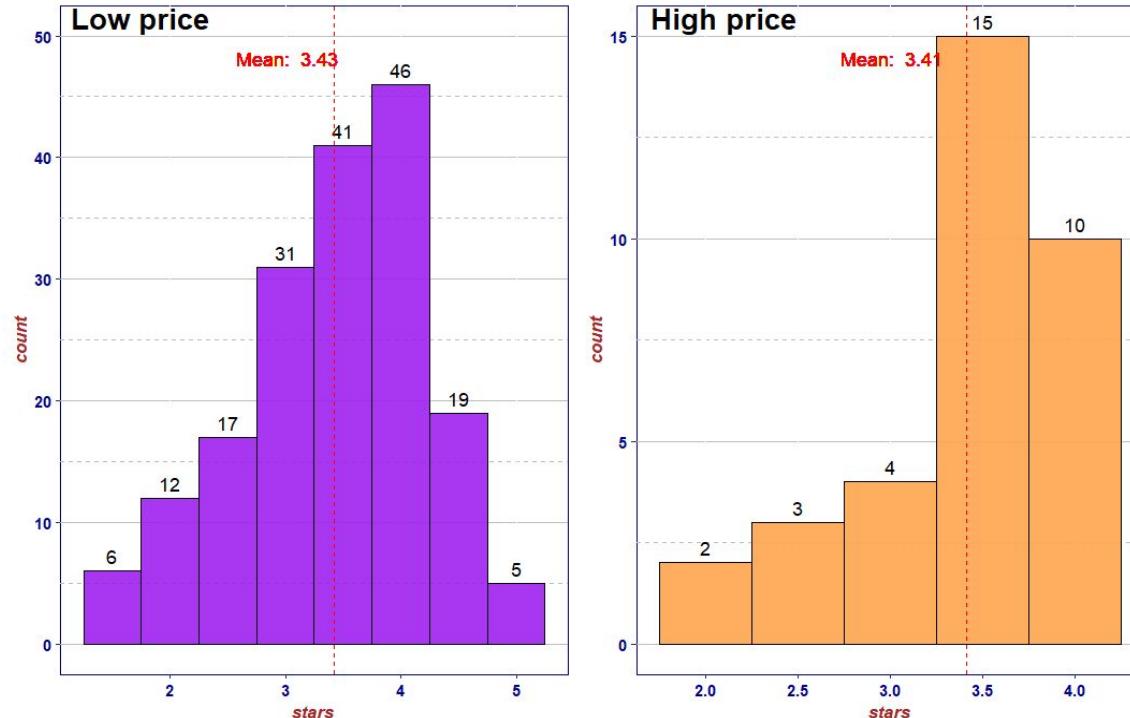
Whether price of an Italian restaurant affects its success and rating



Star ratings of Italian Restaurant open in Philadelphia

Example 2:

Whether price of an Italian restaurant affects its success and rating



Star ratings of Italian Restaurant closed in Philadelphia

What makes an Italian restaurant successful in Philadelphia

- Interactive map
- Restaurant Attribute Analysis
- Food Analysis with NLP
- Suggestions

Please reach out to any of our group members if there is any question:

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Thank you!