Treat Yourself: A Guide to Get the Best Bubble Tea in Metro-Vancouver

SIYU MAO

Feb.18, 2022 | 2:00 P.M.

Project Introduction

01

TOOL USED

- APIs (requests, postman, api documentation)
- Pandas
- datatypes (df, json)

02

METHOD USED

- set api keys as env variables
- request to pull data from url
- data wrangling

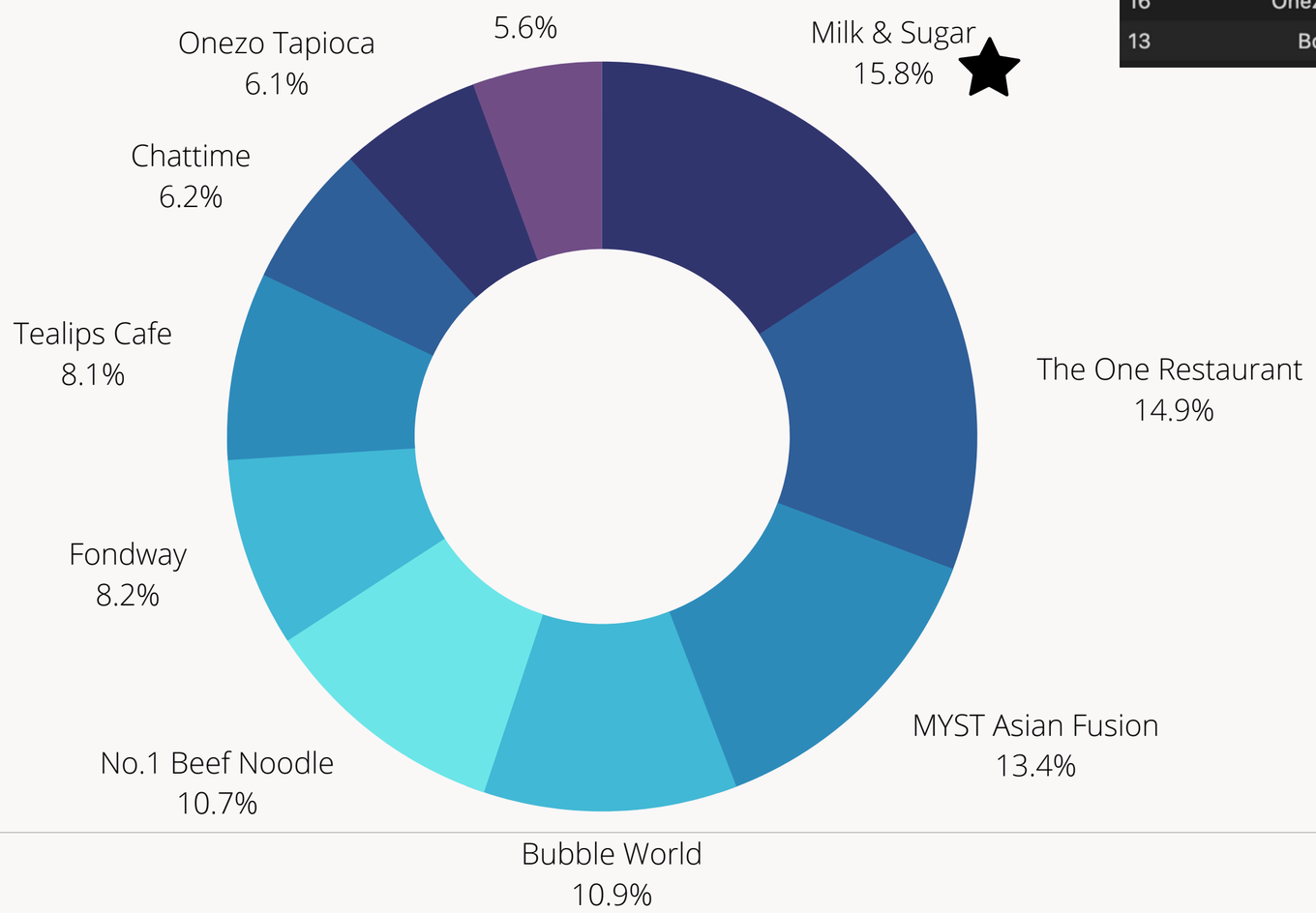
03

PROJECT GOAL

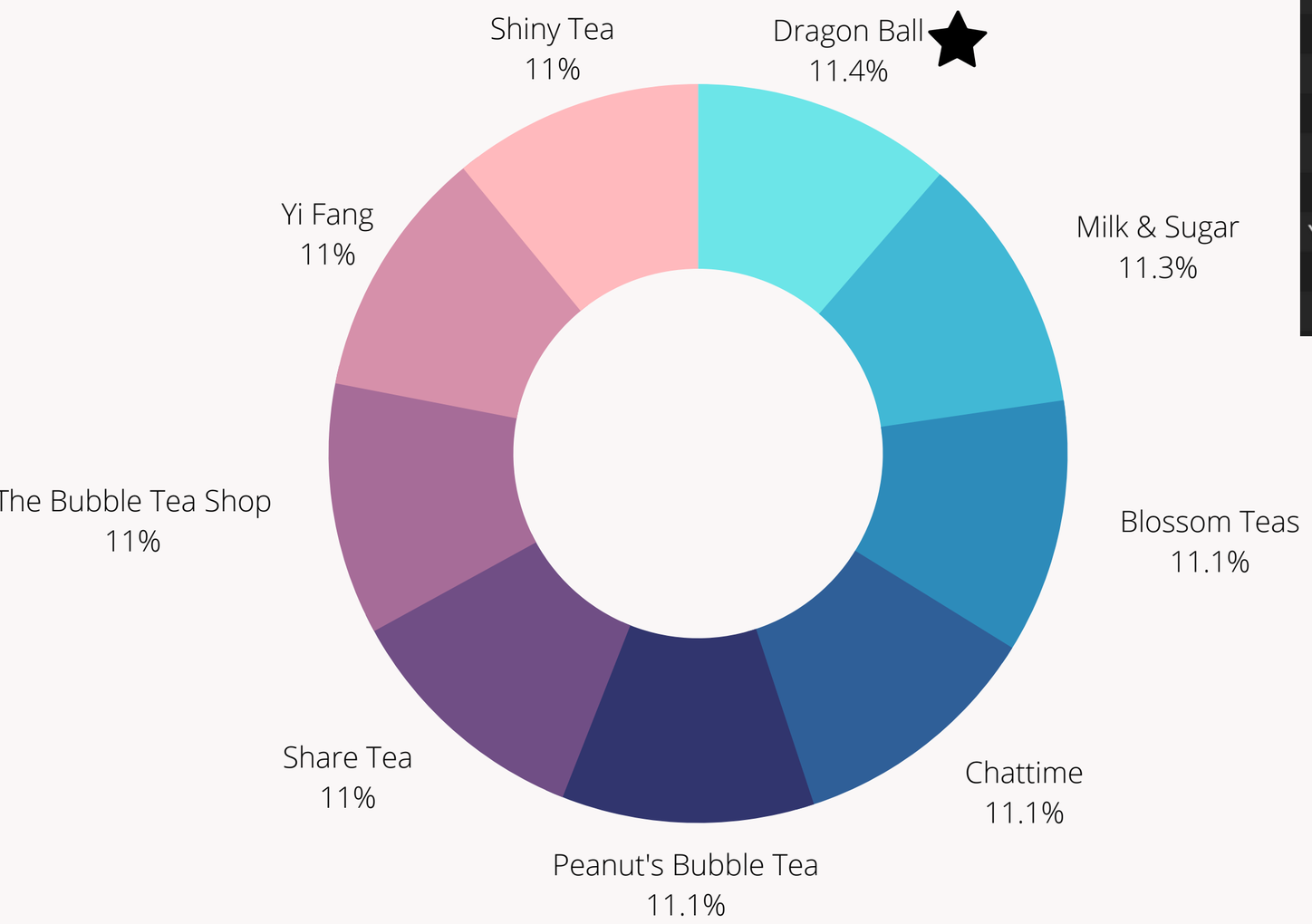
to find top 10 points of interests (bubble tea stores)

Results for yelp

	name	review_count	rating	price	location.display_address
1	Milk & Sugar Cafe	240	4.0	$	[101-3365 Kingsway, Vancouver, BC V5R 5K6, Can...
3	The One Restaurant	227	3.5	$$	[5908 Kingsway, Burnaby, BC V5J 1H2, Canada]
22	MYST Asian Fusion	204	3.5	$$	[2-6400 Kingsway, Burnaby, BC V5E 1C5, Canada]
2	Bubble World	166	3.5	$$	[4300 Kingsway, Burnaby, BC V5H 1Z8, Canada]
9	No.1 Beef Noodle House	163	3.5	$$	[4741 Willingdon Avenue, Burnaby, BC V5G 3H5, ...
10	Fondway	124	3.5	$$	[4462 Beresford Street, Burnaby, BC V5H 2Y8, C...
0	Tealips Cafe	123	4.0	$$	[7139 Arcola Way, Burnaby, BC V5E 0A6, Canada]
4	Chatime	94	3.0	$	[5216 Kingsway, Burnaby, BC V5H 2E8, Canada]
16	OneZo Tapioca	93	3.5	$	[4929 Kingsway, Burnaby, BC V5H 2E5, Canada]
13	Bobacabana	85	3.5	$$	[800 Carvarvon Street, Suite 360, New Westmins...



RESULT FOR FSQ



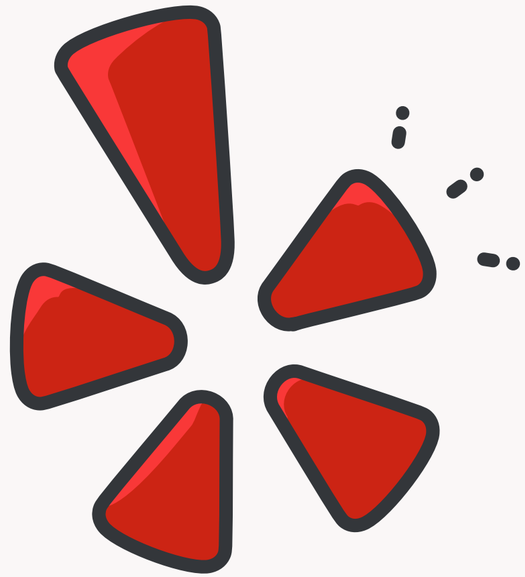
name	popularity	rating	location.address	location.locality
Dragon Ball Tea House	0.992496	8.2	1007 King Edward Ave W	Vancouver
Milk & Sugar Cafe	0.990428	8.0	3365A Kingsway	Vancouver
Blossom Teas	0.971873	7.3	7198 Barnet Rd	Burnaby
Chatime	0.970270	8.2	5216 Kingsway	Burnaby
Peanut's Bubble Tea	0.965770	7.7	8260 Westminster Hwy	Richmond
Sharetea	0.964691	NaN	435O North Rd	Coquitlam
The Bubble Tea Shop	0.963741	NaN	1764 Manitoba St	Vancouver
Yi Fang Taiwan Fruit Tea	0.960468	NaN	10224 152 St	Surrey
Shiny Tea	0.957962	7.1	4000 No. 3 Rd	Richmond
Chatime	0.955171	6.4	10255 King George Blvd	Surrey

Winner boba

Milk & Sugar Cafe

Winner API

Yelp



Reflection

1. Yelp has more data/info available compare to Foursquare

2. locations can be important as well (two same boba has different ratings)

3. Yelp is easier when pulling data and perform data wrangling

4. info available online (opening hours, menus, etc) can be a factor for popularity as well

5. drop.duplicate ()

More thoughts

some potential possibilities for the trend of results

Restaurants are integrating new technologies to record and utilize data to improve their efficiency. Data-gathering sensors placed strategically throughout a restaurant can track how guests and employees use the space, creating an opportunity to improve a restaurant's overall efficiency concerning wait times and traffic flow. Through qualitative analytics, restaurants can create datasets of customer purchasing profiles.

Source:
Dining on Big Data: How Analytics is Reshaping the Restaurant Industry, 2020

BIGGEST CHALLENGE
DURING THE STUDYING

- try to find data at the first place
- messy data to parse and format
- select and change the order of the columns wanted
- merge dataframe and convert to sql

Thank you