Battle of Neighborhoods

Bangkok,Thailand

Introduction

Bangkok is the capital city of Thailand that has a variety of population, culture, livelihood and still being a densely populated province. Causing various businesses who want to grow interested in starting a business from here. But problems for people who want to start a business are What business to do?, Who are the customers? , and Where to open?

This project uses the location, category of venue and population data in each Bangkok districts to analyze relationships to be the information in deciding to start a business for new businessmen or those interested.

Data Sets and APIs:

Foursquare API:

This API provides the ability to perform location search, location sharing and details about each venue. You can gather venue, tips and many useful data in easy way up to your package. In this project, I use personal package Foursquare API to get name, category and latitudes-longitudes of nearby venues around 500 meter from interested points.

Your current account tier is **Personal:**

- 99,500 Regular Calls / Day
- 500 Premium Calls / Day
- 2 Photos per Venue
- 2 Tips per Venue

Data interface:

Venue	Venue Latitude	Venue Longitude	Venue Category
ขาหมูบางหว้า	13.66	100.40	Thai Restaurant
Irashaimase Japanese Restaurant	13.66	100.40	Japanese Restaurant
ร้านต้นไม้ ริมถนนกาญจนาภิเษก	13.65	100.41	Garden Center
เจ๊ไน้ ก๋วยเตี๋ยวเป็ดตุ๋น	13.65	100.41	Noodle House
ส.สุข โภชนา	13.66	100.40	Chinese Restaurant
Lotus Express (โลตัส เอ็กซ์เพรส)	13.66	100.40	Convenience Store
ทิพวรรณ โอชา ก๋วยเตี๋ยวเนื้อตุ๋น	13.65	100.41	Noodle House
Bussabar Steak House	13.66	100.40	Bar
7-Eleven (เซเว่น อีเลฟเว่น)	13.66	100.39	Convenience Store
ลาบร้อยเอ็ด เสือเคหะ	13.66	100.40	Som Tum Restaurant
Café Amazon (คาเฟ่ อเมซอน)	13.66	100.41	Coffee Shop
Black Canyon (แบล็คแคนยอน)	13.66	100.41	Café

Bangkok District Data

url : https://en.wikipedia.org/wiki/List_of_districts_of_Bangkok

I use pandas and ssl library to scrape 50 districts of Bangkok data from above url.

Raw Data

District (*Khet*)	Map Nr	Post-code	Thai	Popu-lation	No. of Subdis-tricts *Khwaeng*	Latitude	Longitude
Bang Bon	50	10150	บางบอน	105,161	4	13.6592	100.3991
Bang Kapi	6	10240	บางกะปิ	148,465	2	13.765833	100.647778
Bang Khae	40	10160	บางแค	191,781	4	13.696111	100.409444
Bang Khen	5	10220	บางเขน	189,539	2	13.873889	100.596389
Bang Kho Laem	31	10120	บางคอแหลม	94,956	3	13.693333	100.5025
Bang Khun Thian	21	10150	บางขุนเทียน	165,491	2	13.660833	100.435833
Bang Na	47	10260	บางนา	95,912	2	13.680081	100.5918
Bang Phlat	25	10700	บางพลัด	99,273	4	13.793889	100.505
Bang Rak	4	10500	บางรัก	45,875	5	13.730833	100.524167
Bang Sue	29	10800	บางซื่อ	132,234	2	13.809722	100.537222
Bangkok Noi	20	10700	บางกอกน้อย	117,793	5	13.770867	100.467933
Bangkok Yai	16	10600	บางกอกใหญ่	72,321	2	13.722778	100.476389
Bueng Kum	27	10240	บึงกุ่ม	145,830	3	13.785278	100.669167
Chatuchak	30	10900	จตุจักร	160,906	5	13.828611	100.559722
Chom Thong	35	10150	จอมทอง	158,005	4	13.677222	100.484722
Din Daeng	26	10400	ดินแดง	130,220	2	13.769722	100.552778
Don Mueang	36	10210	ดอนเมือง	166,261	3	13.913611	100.589722
Dusit	2	10300	ดุสิต	107,655	5	13.776944	100.520556

Population Data

From stat.bora.dopa.go.th

Big picture characteristics of people who live in each district.

Neighborhood	Male	Female	Total	House
พระนคร	23080	24621	47701	19155
ดุสิต	48615	41154	89769	31955
หนองจอก	85682	90340	176022	65048
บางรัก	22834	25393	48227	32347
บางเขน	89273	99727	189000	112614