presentation (Week 2)

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A description of the problem and a discussion of the background



National Chi Nan University is a research-intensive university in Pu Li, Taiwan. The university nearly famous attraction "Sun Moon Lake" and a lot of foreign sightseers visiting. Chi Nan University has the beautiful campus and opens to visit the general public

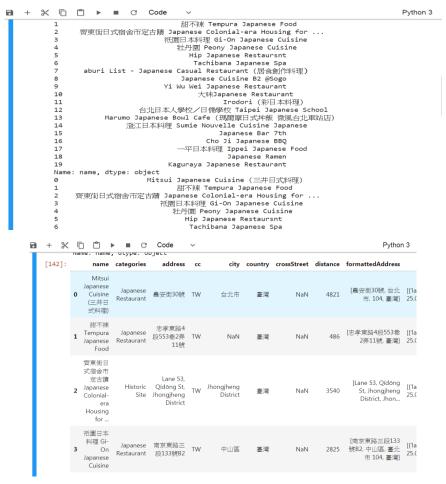


The school side hope that more public and foreign sightseers visit campus, but campus have not enough restaurant, sightseers must go to Pu Li town look for restaurant, The school side want to make restaurant guide information for foreign sightseers and want to know restaurant style, address, telephone number on school around, of course, foreign sightseers don't want to eat McDonald's or fast food restaurant, so the school side hope collect Taiwanese cuisine restaurant, Chinese cuisine restaurant and Taiwan tea restaurant information, the information will help sightseers looking for own interested restaurant style and improve visit willingness.

description of the data and how it will be used to solve the problem In case, I will use Foursquare API to search for venues and make the call to the Foursquare database and in return, I use K-means clustering to do classification restaurant style and distance, the data form:

'https://api.foursquare.com/v2/venues/search?client_id={}&client_secret={}&ll={},{ }&v={}&query={}&radius={}&limit={}'.format(CLIENT_ID, CLIENT_SECRET, latitude, longitude, VERSION, *** query, radius, LIMIT)

Return result like this: (this is example)



And I must analysis distance for venues, sightseers will understand how many restaurant style, address, telephone number and distance, the school side will can make restaurant guide information for sightseers.