Problem Statement: Investment Decision-Making in Cameroon

A Chinese investment firm has won a mining contract in Cameroon. Far from being the only activity they want to be engaged with, these investors also have an intention to cash-in on other opportunities within the 15-year period they will be in Cameroon. To do so, they need to know the 3 top most common business ventures in each of the regional capital cities in Cameroon. While the ministry of trade and industry has some data, this data is largely insufficient to provide the required information. They then approach Melaine Nsaikila, a data scientist based in Cameroon's political capital of Yaoundé to help explore and provide the relevant information they need. Description of the Data

The data for this project will mainly be taken / scrapped from the web. In essence it will be Foursquare data. For each of the 10 regional headquarters, the foursquare 'explore' option is used to collect data and return venues within 50 km or 50,000 meters from the city center.

All the data from the ten different cities will be merged. We then perform a count of the number of venues returned for each city, followed by the mean of the frequency of occurrence of venues in each city.

We will then print each city with the top 3 common venues / business and transform the data into a pandas data frame to hand over to the investors.

Based on the available information, the investors can then make their decision based on the frequency of a business within a particular city and or depending on their budget.

They have the information required in the final data set.

In between, we will use folium to generate the maps of the cities with the location of the venues pinned on them.

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