

Data Section

1_First data frame – “dataframe”

I will use arak city bank locations dataset that extract from json file I downloaded from foursquare API.

This dataset contains 44 banks and latitude , longitude , banks name and distances from city center spot. dataset name is “data frame”

This dataset don't show all banks data. I notice it when searched google map data and compare it to foursquare dataset. In google map you can see more than 44 banks in Arak city but foursquare just show 44.

2_Second data frame – more complete – “base”

So for find a more completed list of banks I scraped this url:

<https://www.cbi.ir/BanksInstitutions/BankInstitute.aspx>

And download a xls file with name(“report.xls”) then turn it to a data frame and will add it to project at the last part of project on maps to surprise audience further more. but there was a problem, there was no location data in this new list so I began to find each 200 rows In google map and copy and paste location of all 200 addresses of banks in new data frame with name “base”.

So added this dataset(“base”) to first data sets at the end of report to show more banks in map.