

Drugstore Establishment

Probelm

In this project I solved problem of drugstore owner who was interested to establish a new drugstore in US. He/She wants the drugstore to be in the region where most hospitals are located since more hospitals means more patients who need drug.

Data

In order to find the best region I used foursquare api to get list of hospitals in 10 most popular city of US. After collecting the data, I cleaned it and transformed it to a dataframe that has 300 rows and include name of hospital, city, state, lat and lng of the location. In order to find the region where most hospitals are located I used kmeans clustering to segment the data into 5 region.

	name	city	state	lat	lng
0	NewYork-Presbyterian-Lower Manhattan Hospital	New York	NY	40.709917	-74.004758
1	NY Presbyterian Hospital Lower Manhattan Hosp ER	New York	NY	40.709985	-74.004720
2	Battery Park Veterinary Hospital	New York	NY	40.708163	-74.017927
3	Reade Street Animal Hospital	New York	NY	40.716732	-74.009979
4	Bellevue Hospital Center	New York	NY	40.739475	-73.975453