Capstone Project

Introduction.

Case study

High-tech company
Set up a headquarter shift
In Paris from Petit-Montrouge neighborhood

Since work done from office

→ Mainly consider workers interest

Same characteristics neighborhood based on:

Venues in the area Population attributes

Project description

Project: finding similarities in Paris neighborhood to inform the company decision to acquire new headquarters

Idea : clustering twice
On venues
On population attributes

Data required:

Paris neighborhoods list and geographical information Paris neighborhoods most frequent venues Paris neighborhoods population data

Data.



geographical information

As geographical_df

Source

<u>open data paris - geographical</u> information

Attributes

Id_seq (link to other data)
Code INSEE (idem)
Borough
Neighborhood
Latitude
Longitude



Venues data

As paris_venues

Source

Function getNearbyVenues from foursquare API Foursquare - developers apps

Attributes

Neighborhood 1st Most Common Venue

mth Most Common Venue



Population attributes

As population_df

Source

open data aput - rencensement

Attributes

Code INSEE commune
Density
Population
Population under 40

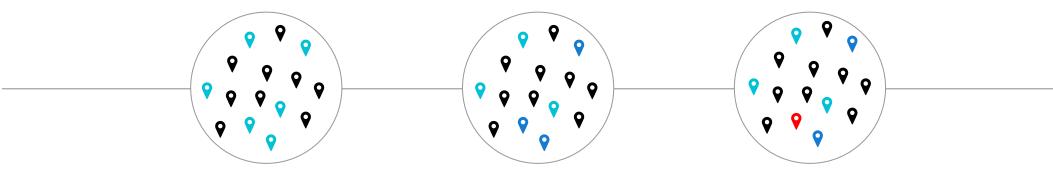
Idea diagram.

First clustering

Discriminate neighborhoods based on most common venues

Final decision

Choose neighborhood based on current possibilities (and again worker preferences if possible



Second clustering

Discriminate neighborhoods based on population information