



# Applied Data Science Capstone

Find the best place for opening a gym

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## Introduction

health is the most important thing in our life . so , we should have a sport routine and behavior , consequently we must eat healthy food and go to *the gym* to keep our body strong and our life better

## problem solution

the best way to make a the best dicission is by usinig a reliable data and make a good model to solve the problem . So in this case i suggest using data to find the best geo place to start the gym project , also , i suggest to target the place with highest young/adult(16-50) population because there are the regular member of the gym





## Business Problem

in business, the most important phase is the planning but many investor forget the importance of the geo place ( location of the project ) and the type of client ( age , behavior .. ) and finnaly the competition with other investor .



# data

geo place  
data

visitor age  
data



Source: foursquare.com



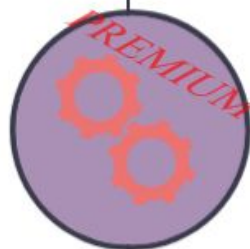
Source: Tunisian National  
Institute of Statistics



**step1** | download data from Tunisian National Institute of Statistics ,  
Clean data and find wich neighborhood have the highest adult/young  
population



**step 2** | after we define the highest population place , we start to search the other  
gym in the same neighborhood using foursquare data



**step 3** | build a model to find the best geo place for the  
project using KNN algorithm



**step 4** | export the result in folium map