



What is the best place  
to start a business in  
Algiers?





# Algiers City



The Capital of Algeria ,with over 300km<sup>2</sup> of area



A city of 57 Townships



A city of about 4 millions people





# Clustering the city based on venues



Algiers city is the economic and political capital of algeria, it is a large city with 57 districts. This project aims to boost economic development in algiers. Business owners need to figure out the best place to locate their businesses based on competition and business needs in an area of the city. The project aims to answer the following questions: ● what is the best place to locate a business in algiers? ● What are the most common categories of venues in algiers? ● Which area in algiers city is the best for launching a new business?



# Methodology





# Data Collection

- Location data of the townships of the city of Algiers :Wikipedia page of Algiers province using beautifulsoup
- Latitude and longitude data of each township :Using geopy package
- Venues data :using foursquare api





# Data Processing

- Using onehot encoding to transform categorical variables to numerical
- Manually editing the dataframes and logging some missing values
- Merging a set of dataframes together for the clustering



A cluster of hexagons in the top-left corner, featuring a large cyan hexagon, a smaller cyan hexagon above it, a dark blue hexagon to its right, and a dark blue hexagon below it.

# Data Modeling

-Kmeans algorithm for clustering the townships based on most common venues to 7 clusters







# Conclusion

The clusters were not able to be disjoint as the venues are mainly similar to each other in almost every neighborhood.

Algiers City is a residential city more than being a commercial one or a touristic one

Only the basic services are available in every neighborhood .

Algiers City is a good city for starting any kind of business that is different than hotels, restaurants and grocery stores!





Thank You!

