



OPENING A NEW CAMPGROUND IN ARDÈCHE, FRANCE

Coursera Capstone Project
IBM Applied Data Science Capstone

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Background

- Ardèche Department in France is a popular place for summer holidays
- A lot of campgrounds that flourish
- Where is the best place to open a new campground in this department?



Data

- Data required

- *List of communities of the Ardèche Department*
- *Latitude and longitude coordinates of the communities*
- *Venue data, particularly data related to camping grounds*

- Sources of data

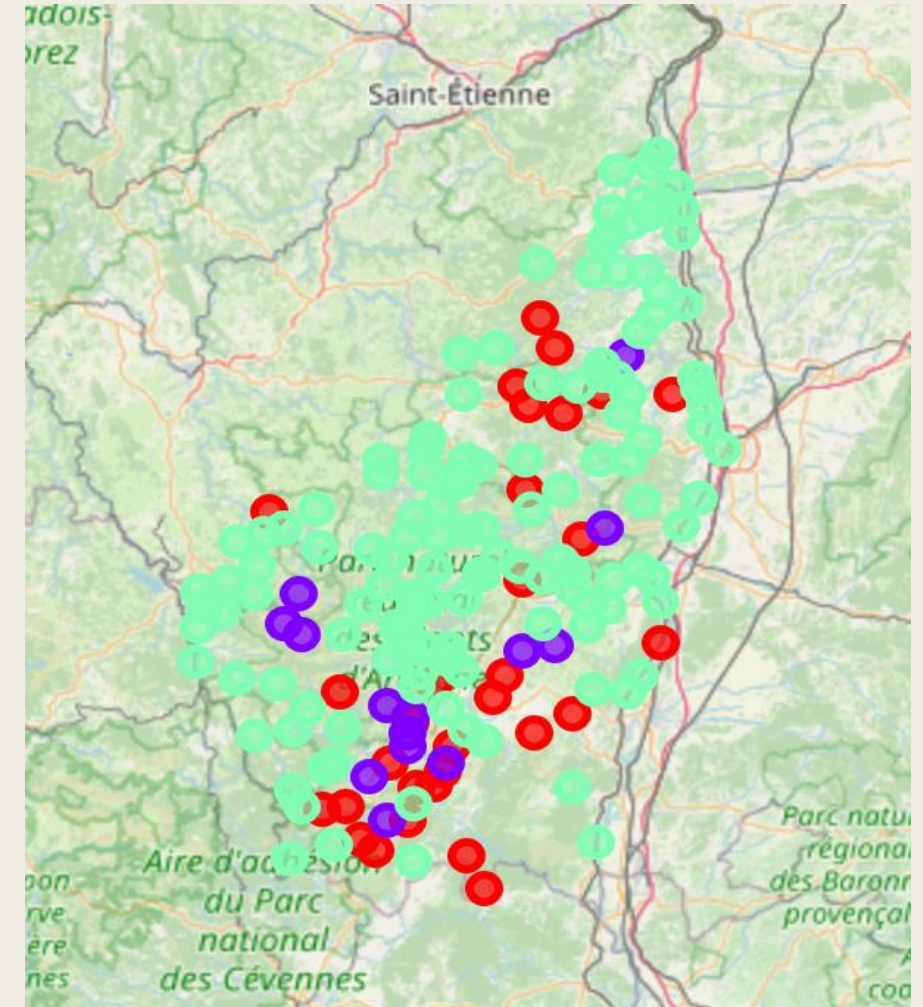
- *Wikipedia page for communities*
- *Geocoder package for latitude and longitude coordinates*
- *Foursquare API for venue data*

Methodology

- Web scraping Wikipedia page for community list
- Get latitude and longitude coordinates with Geocoder
- Use Foursquare API to get venue data
- Perform clustering on the data using k-means clustering
- Visualize the clusters in a map using Folium

Results

- Cluster 0 (red): moderate number of campgrounds
- Cluster 1 (purple): high number of campgrounds
- Cluster 2 (mint): low number of campgrounds



Recommendations

- Open a new campground in the communities in Cluster 2 with little to no competition
- Open a new campground in the communities in Cluster 0 with moderate competition if you have unique selling propositions to stand out from the competition
- Avoid communities in Cluster 1, as there is already a high concentration of camping grounds