

Lifestyle Analysis of Paris

A.Boittin *11/05/2020*

Agenda



Problem Statement



Project Overview



Problem Solution



Benefits



Way Forward



Introduction

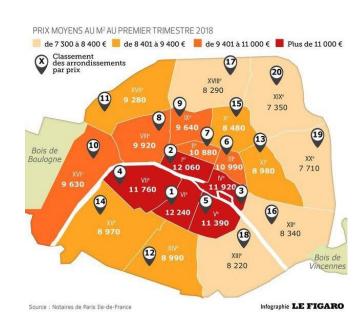
Paris is divided in 20 arrondissements.





Problem Statement

 What does explain the cost differences between arrondissements?





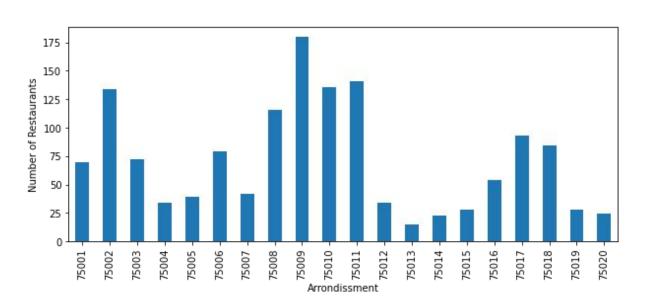
Data Description

Source	Description	Туре
Newtable	Last opened restaurants	Website + Personal Notebook
Paris Data	Arrondissements + Administratives Neighborhoods coordinates	API + API
	Houses rental cap 2019	<u>API</u>
	Events and activities	<u>API</u>
	Parks and green spaces	<u>API</u>
	Opened Markets	<u>API</u>
RATP	Global transportation offer (schedules, localisations, lines)	API
Inside Airbnb	Available hosts list for temporary rents	<u>API</u>
Overpass	OpenStreetMap API	API
Etalab	Past real estate buying prices (last 5 years)	Source Code
INSEE	Population	<u>Datasets</u>



Features Selections

Restaurants

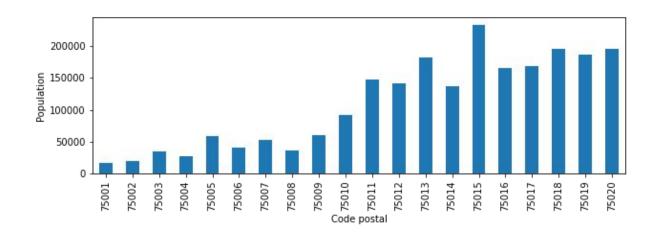






Features Selections

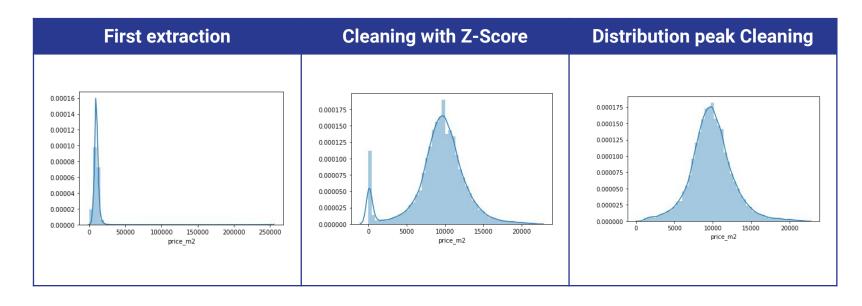
Population





Target

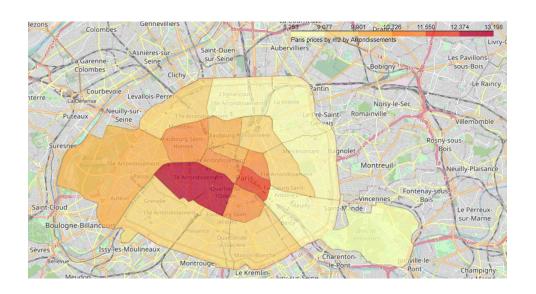
Price

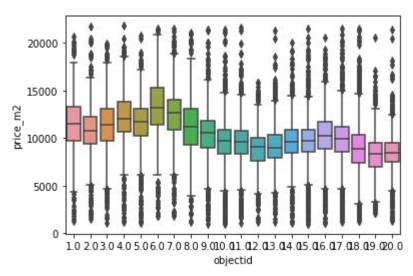




Target

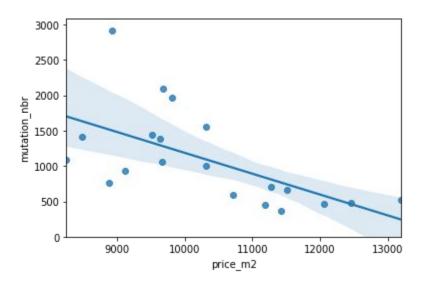
Price





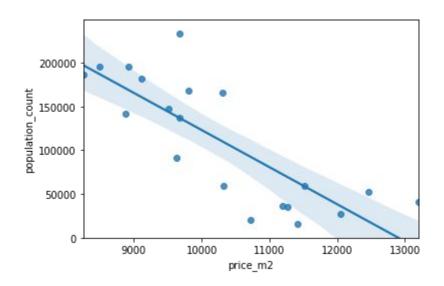


Correlation: Number of mutation vs Price



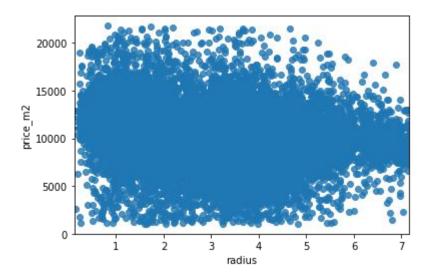


Correlation: Population vs Price





Correlation: Radius from Paris center vs Price

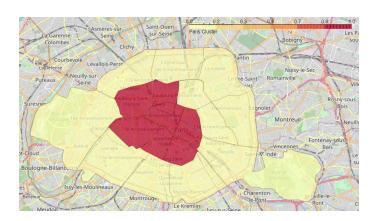


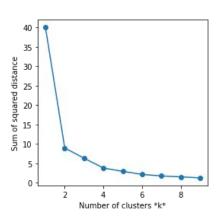




Clusterization using K-Means

- Center: rich (11572 €/m2) and less populated (38,600
- Periphery: cheaper (9296 €/m2) and more populated (167,539).





Results

- Hard to find real correlations between chosen features and price
- More data is needed to refine the model

Conclusion

- Good opportunity to apply python and data science skills
- Lot of data available on French administration websites







