ImmoEliza Data Analysis

Team Tensorflow

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Cleaning and Assumptions

- Source of data: ImmoWeb
- Data cleaned using Python with Pandas
- Empty values replaced with assumed values

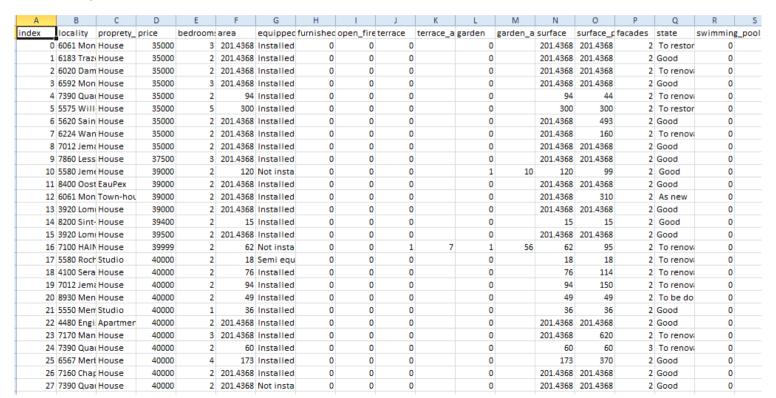
rsurface	surface_p	facades	state s	W
		2	To restore	
		2		
			To renovate	e
94	44	2	To renovate	e
300	300	2	To restore	
	493			
	160		To renovate	e



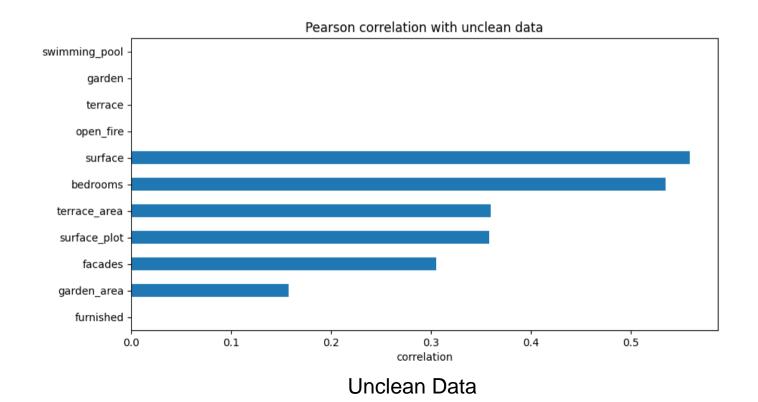
surface	surface_p	facades	state :
201.4368	201.4368	2	To restore
201.4368	201.4368	2	Good
201.4368	201.4368	2	To renova
201.4368	201.4368	2	Good
94	44	2	To renova
300	300	2	To restore
201.4368	493	2	Good
201.4368	160	2	To renova

How many rows and columns?

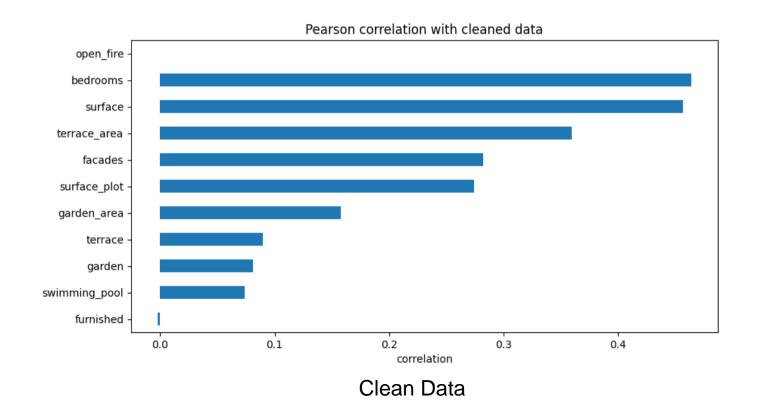
- 13505 rows by 19 columns



Correlation between the variables and the target



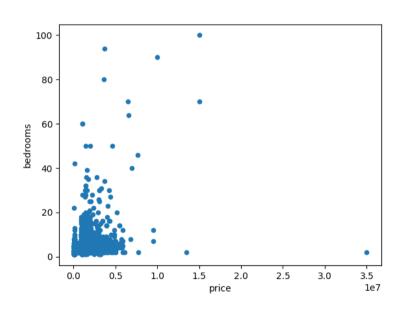
Correlation between the variables and the target

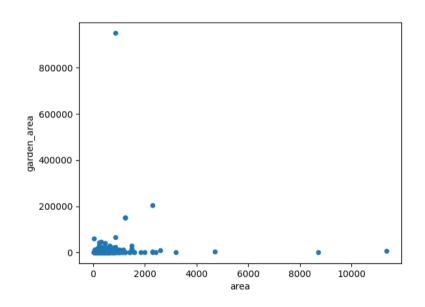


Percentage of missing values per column

locality	0.000000
proprety_type	0.000000
price	0.000000
bedrooms	11.395779
area	29.707516
equipped kitchen	40.584969
furnished	34.091077
open fire	100.000000
terrace	72.632358
terrace_area	72.632358
garden	83.843021
garden area	83.843021
surface	29.707516
surface plot	54.935209
facades	30.292484
state	29.233617
swimming pool	93.780081
3.47.11112118_boot	33.700001

Outliers





Outliers according to bedrooms

Outliers according to garden area

5 most important variables

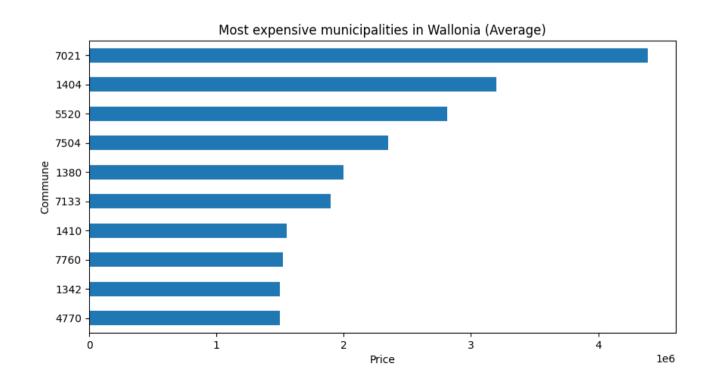
- Price
- Surface
- Bedrooms
- Terrace area
- Surface of the plot

Most expensive municipalities in Belgium

	locality	proprety_type	price	ŀ
3144	3150 Haacht	Apartment block	35000000	
3803	3150 Haacht	House	1950000	
7688	3150 Tildonk	Manor house	1375000	

Most expensive municipalities in Wallonia (Average)

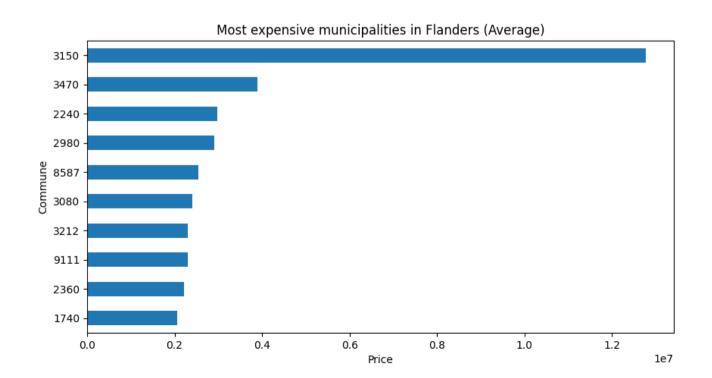
- Havré



Data Interpretation

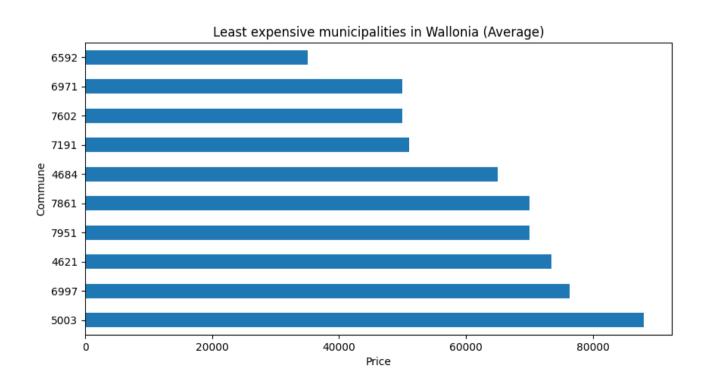
Most expensive municipalities in Flanders (Average)

- Haacht



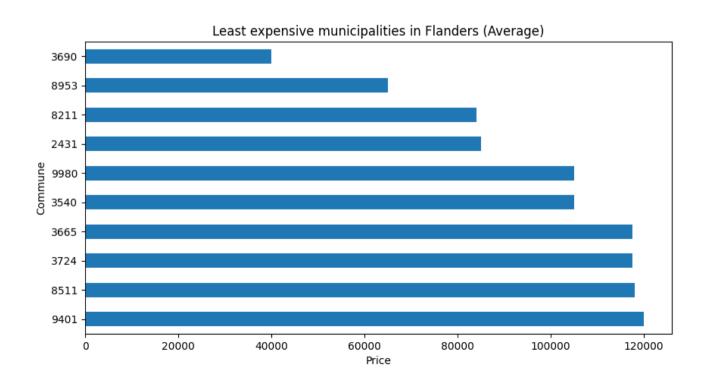
Least expensive municipalities in Wallonia (Average)

- Imbrechies



Least expensive municipalities in Flanders (Average)

- Overijse



Challenges

- Time :D

To Go Further

- Deeper Analysis