Code-Hers

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How to I search for a suitable place to stay with my family??

Not sure where to go?

Air BnB Pro

Planning for a "Stay-Cation" but don't know the perfect place that will give you the homely feel and also fulfill your tourist needs??

AirBnB Pro is all you need.

Filter by price, property type, nearest tourist attractions and much more.

Specify everything you want to consider before booking your AirBnB.

❑ Data

Data plays an essential role as it

- helps in understanding patterns, trends
- help procure important information for our project through it.

For this project:

Data has been sourced from - http://insideairbnb.com/get-the-data.html for the **Amsterdam** city.
Our dataset can be found here - https://rb.gy/6jclvb

The data source should be reliable and provide accurate or near to perfect statistics for a good recommendation engine.

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❑ Dependencies

A library is a bundle of pre-defined code made to help one accomplish routine tasks more quickly.

DEPENDENCIES

- Numpy
- Pandas
- Seaborn
- Sklearn
- Matplotlib
- Folium
- Geopandas
- Plotly

- Cufflinks
- Nltk
- Cleantext
- Spacy
- Pickle
- Wordcloud
- Tableau

❑ Data Cleaning

One of the initial steps in a data science project.

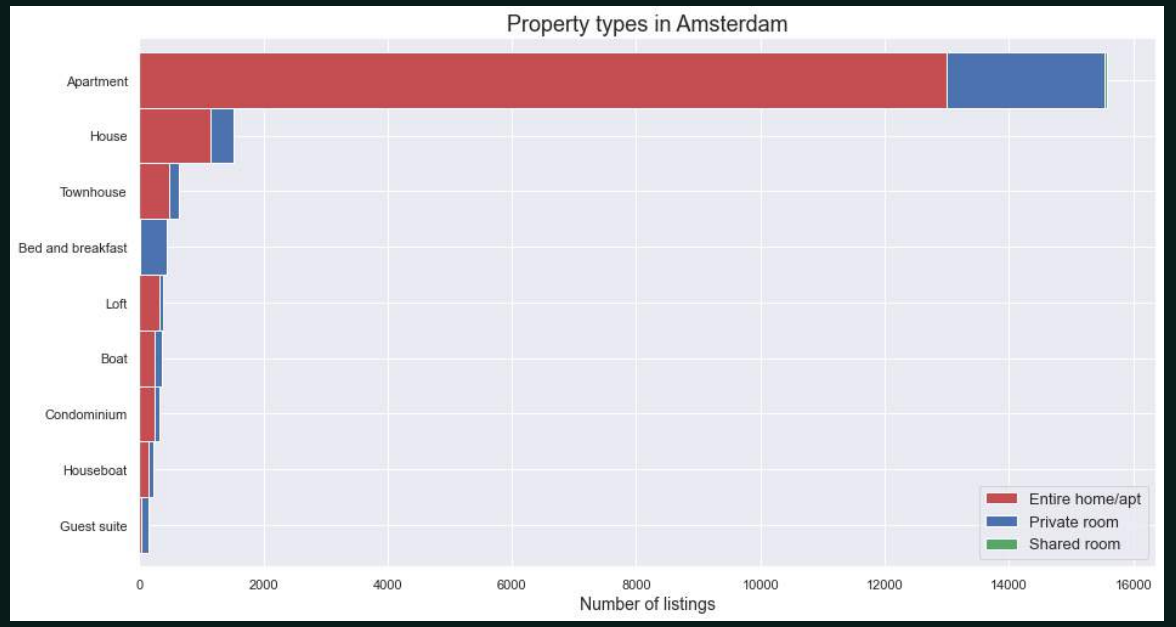
The data cleaning steps established in this project include:

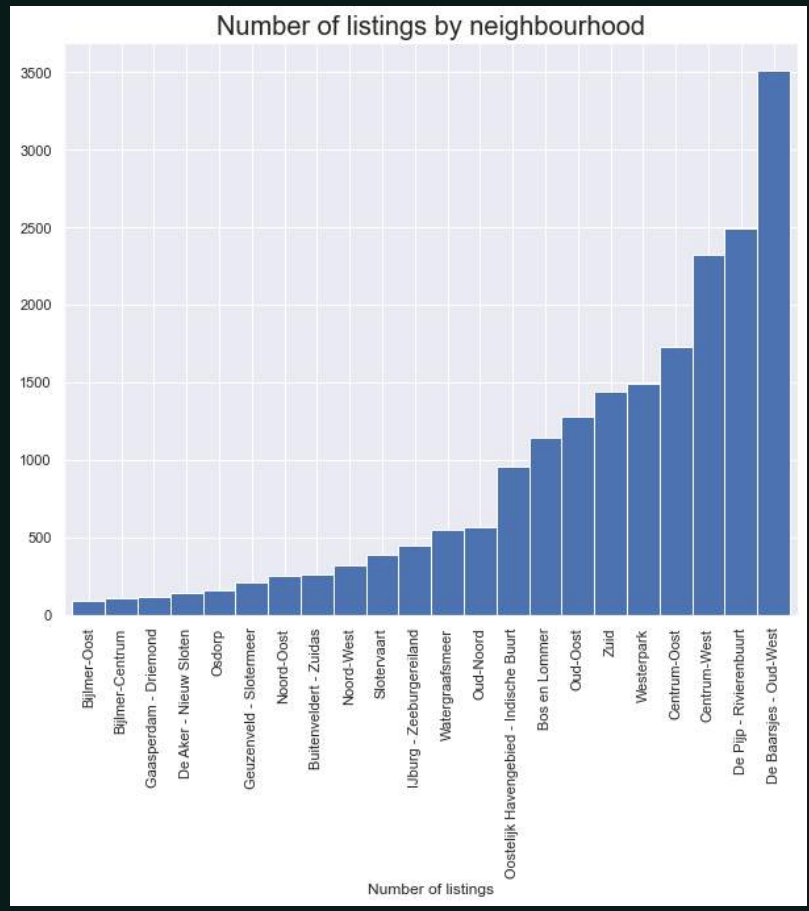
- Dropping neighborhood group - *Empty Column*
- Removing "%" from host_response_rate

❑ EDA

- ✓ Helps in understanding data more clearly and helps draw efficient conclusions.
- ✓ Visualization plays an essential part.
- ✓ Visualization tools used are :
  - Folium
  - Plotly
  - Matplotlib

Comparison of property types of AirBnBs





No. of listing by neighborhood

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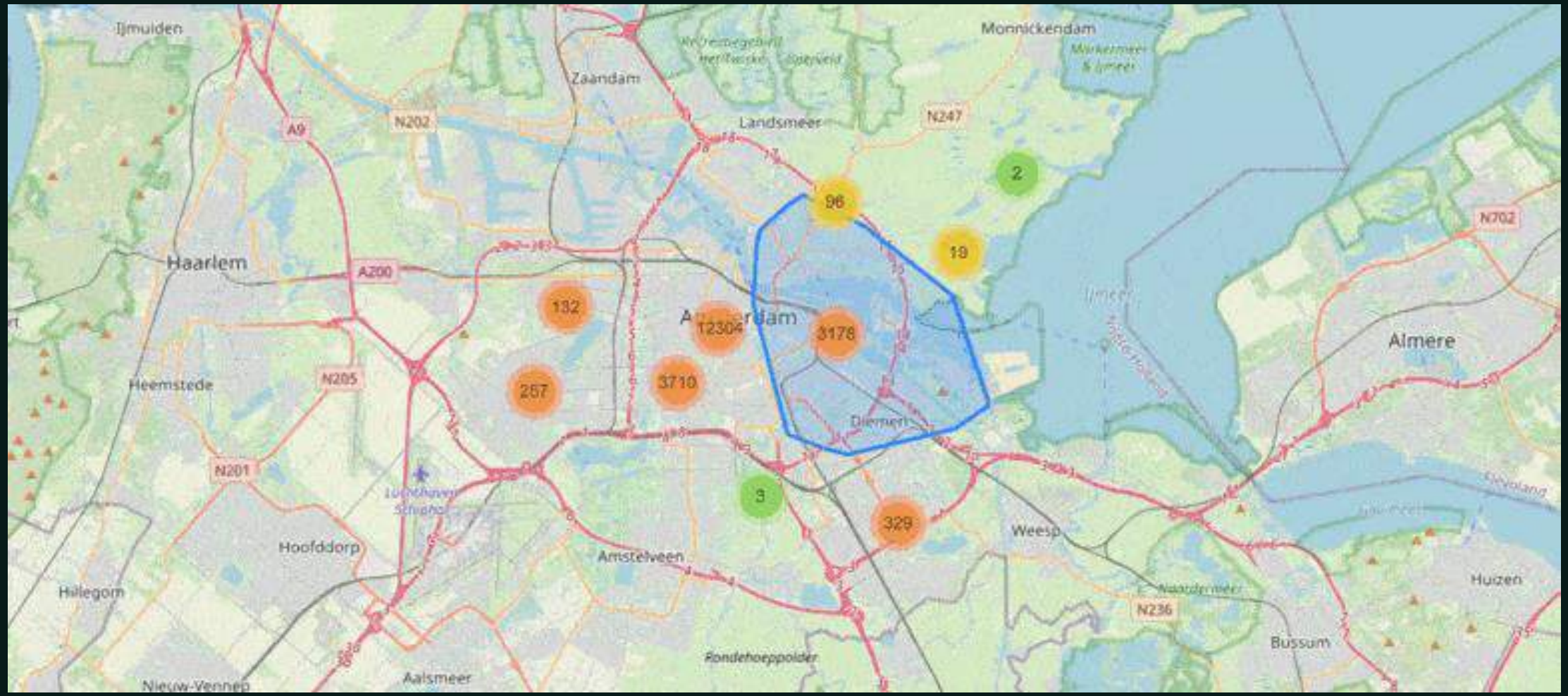
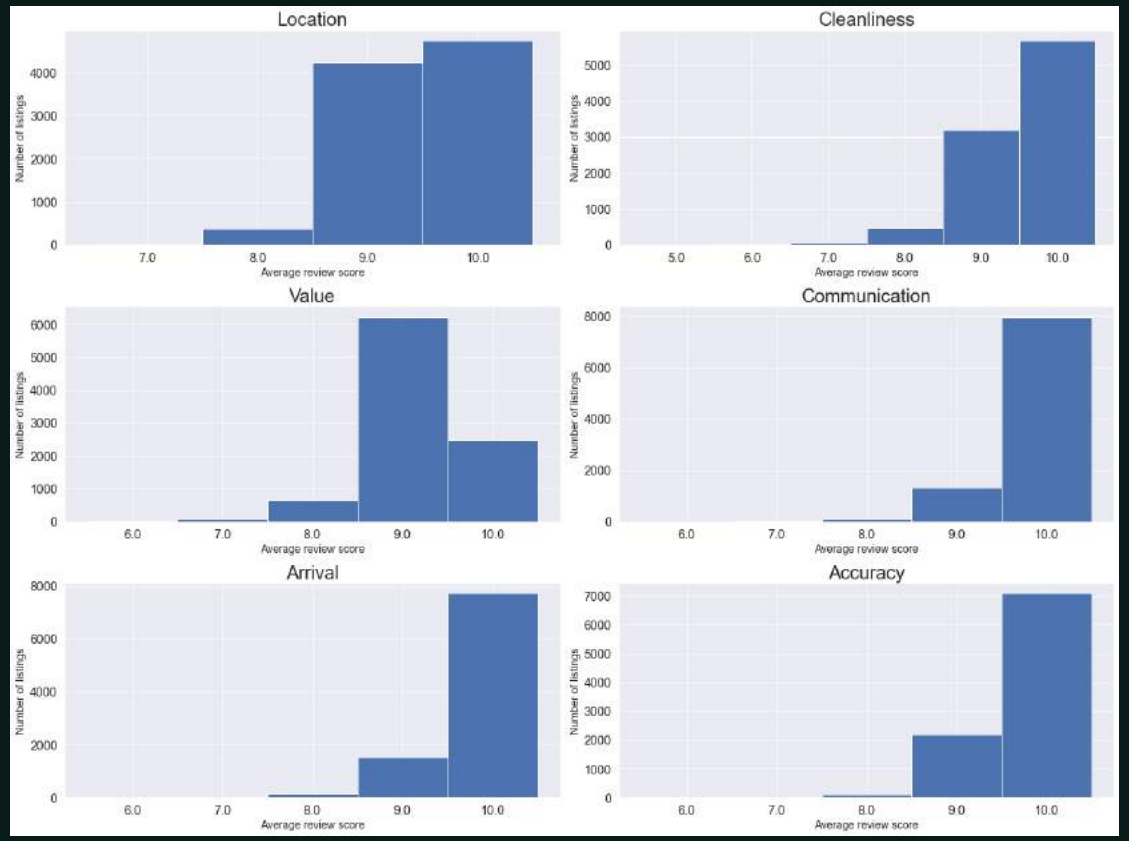
Visual Representation Of Neighborhoods On Map

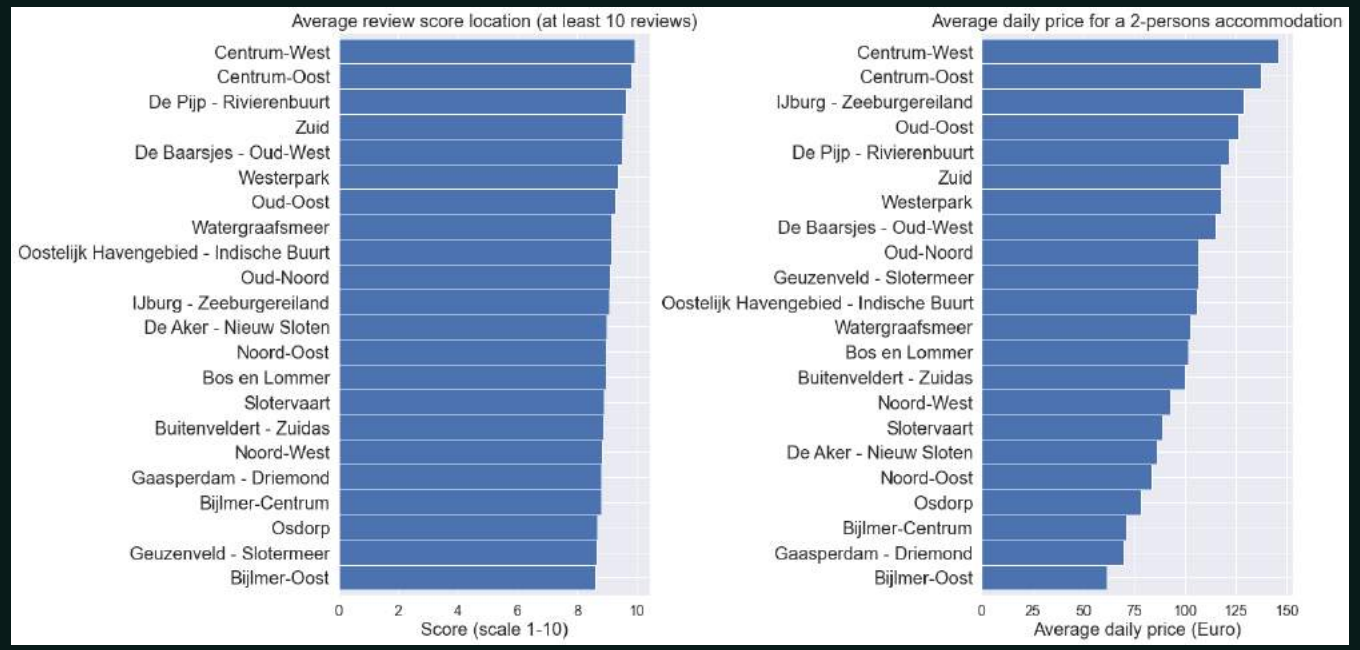


❑ EDA (Contd.)

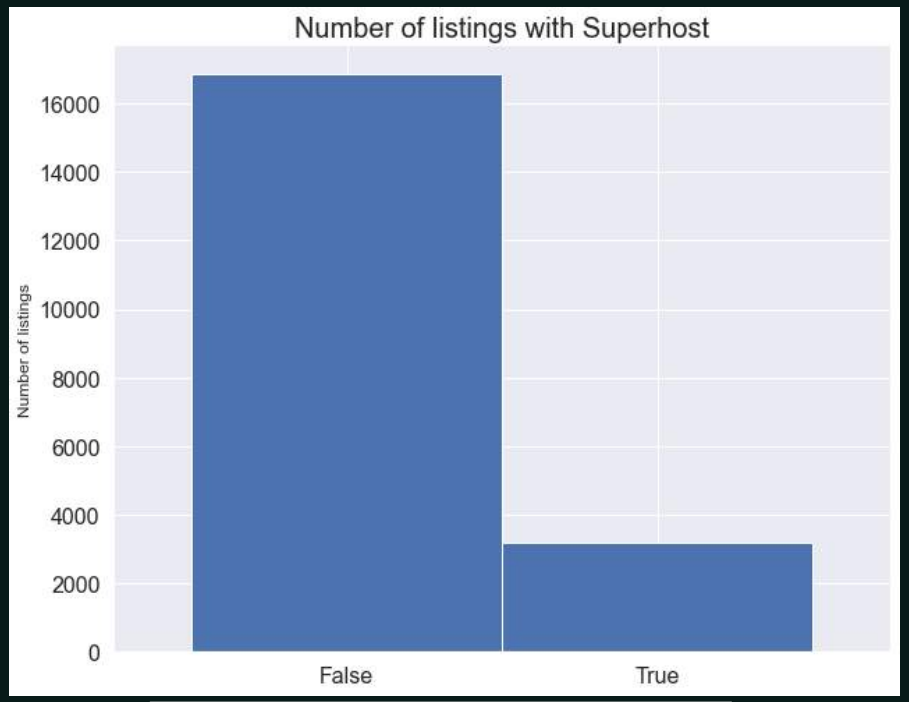


Visualizing average scores of different categories of reviews

Side By Side Visualization Of Reviews And Average Price For a 2 Persons Accommodation



❑ EDA (Contd.)



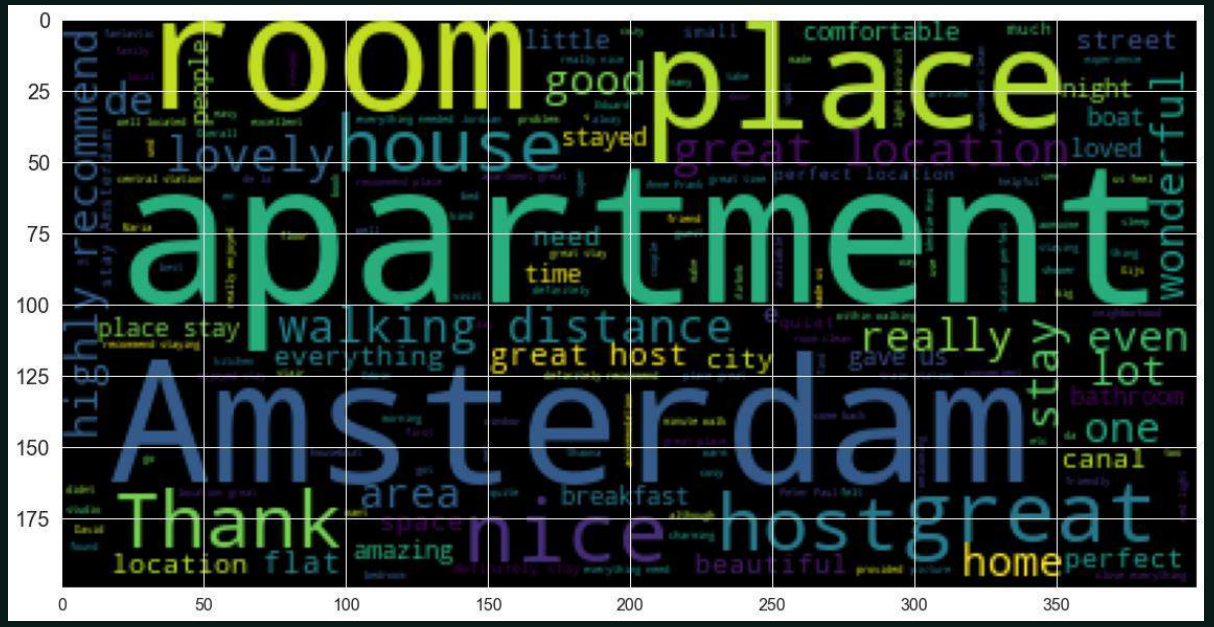
No. of listing by superhost.

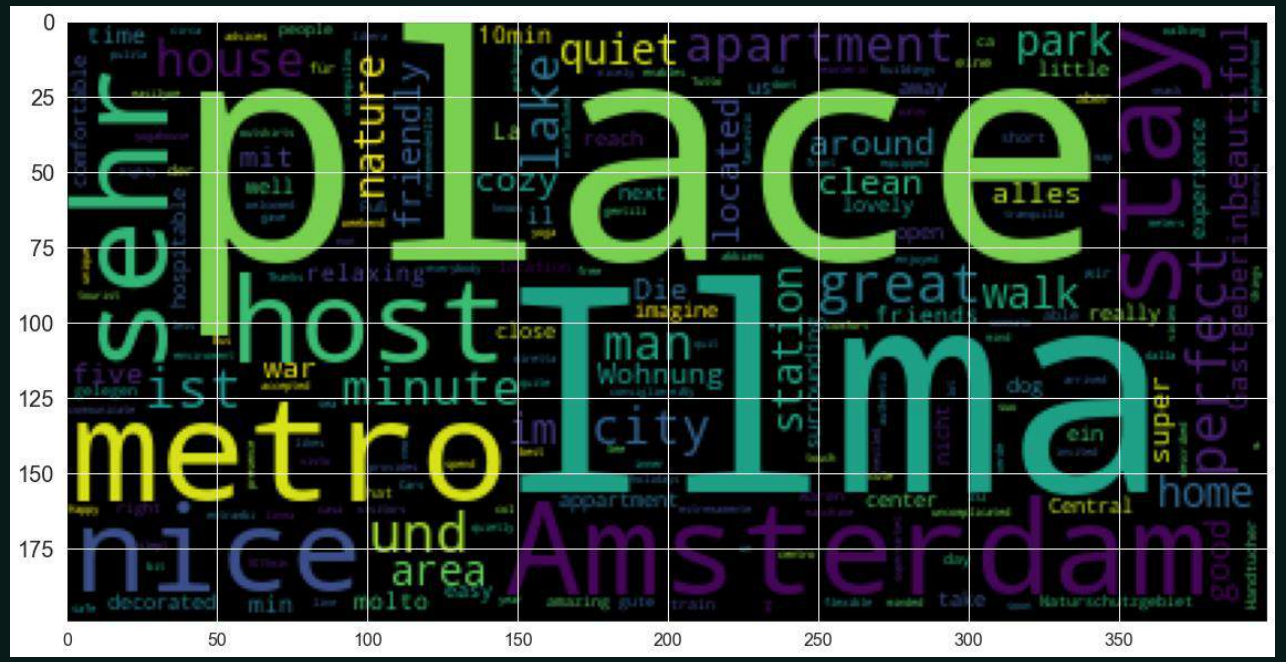
No. of Listing available by date

Average price of available 2 persons accommodation by date

❑ Word Cloud Creation

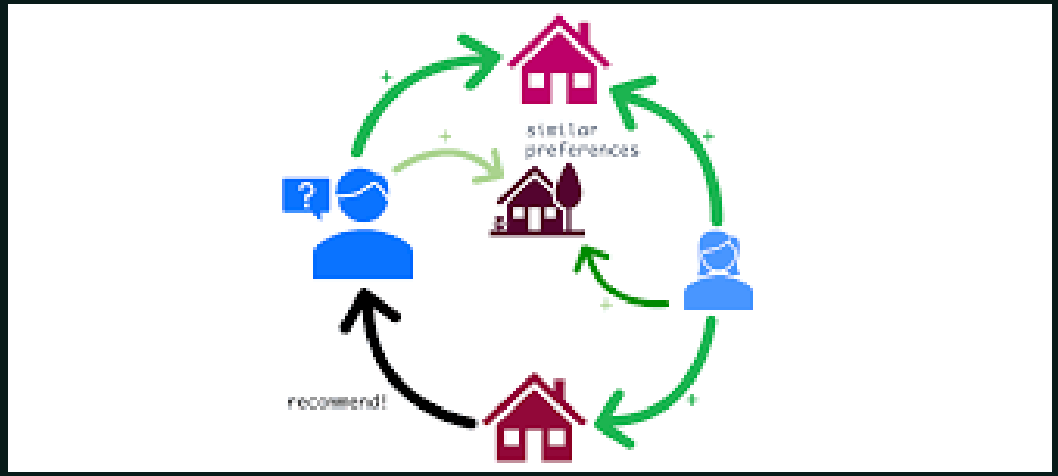
A Word-Cloud is the visual representation of words





❑ Recommendation System

Finally a text-based recommendation engine using NLP was built.

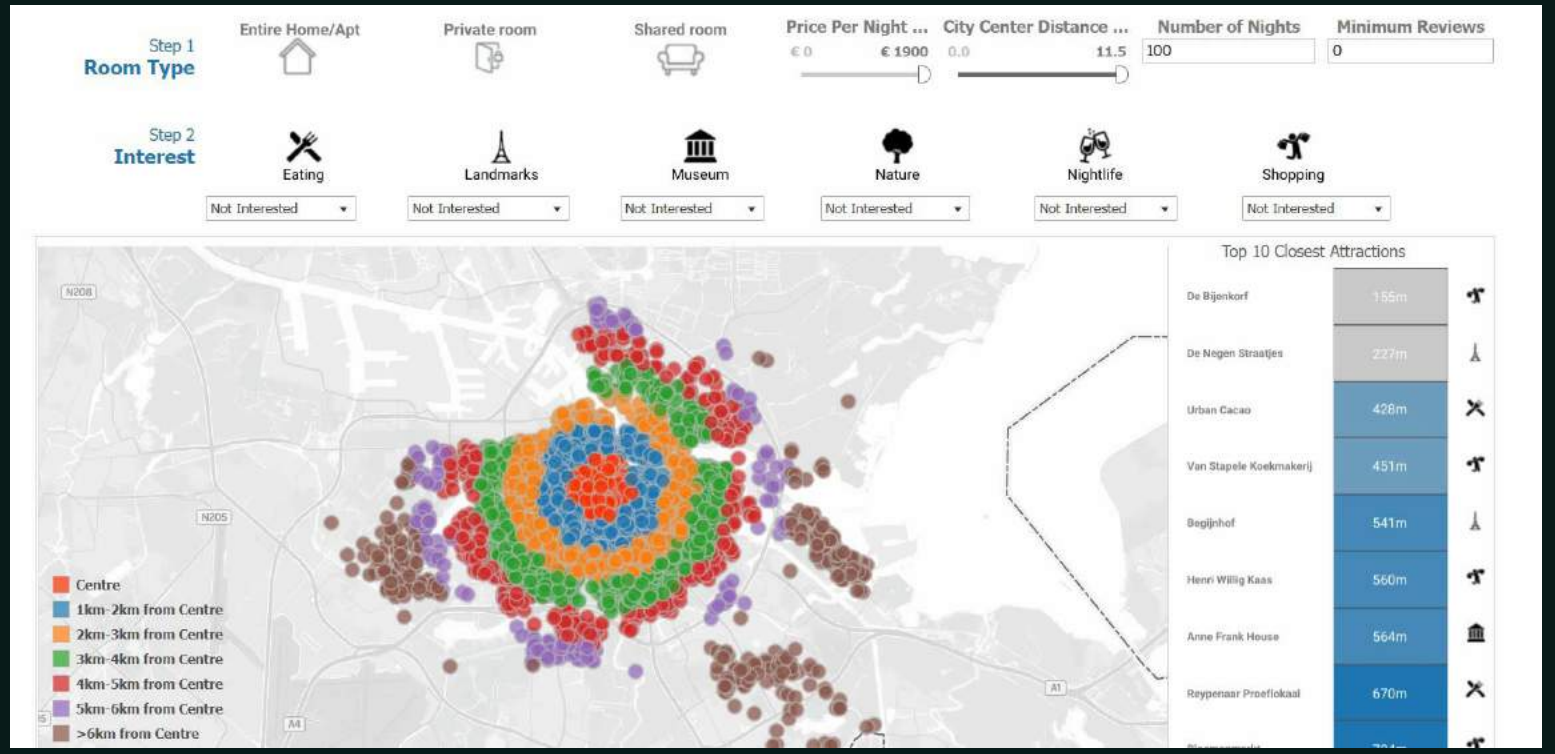


Steps Taken In This Process :

Conversion Of Text To Word Vectors → Training of a Classifier Model → Creating Recommendation System

❑ Dashboard

- Helps the user to easily choose and narrow down the favorable stay
- Contains maps and toggles letting the user to choose the restaurants museums and much more
- Also suggests the 10 near attractions
- Allows the user to choose the property type according to price inputs



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THANK YOU!