Over-Tourism in Amsterdam

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# 1.Introduction

Amsterdam is a city with a population roughly 1,5 million. Meantime, the number of tourists that visit Amsterdam each year reaches to roughly ten times its population with 15.9 million daily visitors and 8.3 million overnight visitors [1]. As the volume of tourists that visit Amsterdam keep on growing, the possibilities for accommodation increases as well as number of other establishments targeting tourists.

With growing numbers of restaurants, bars and coffee-shops, there are concerns that Amsterdam is becoming a victim of over-tourism. Besides loosing authenticity of Amsterdam, there are concerns with regards to scarcity of living spaces for locals. Limited number of accommodation options lead to competition between regular and tourist accommodation while more and more essential shops leave their place to tourist shops.

In this investigation, we will look into different neighbourhoods of Amsterdam with regards to characteristics of their venues and availability for AirBnB offers. The insights generated will help Amsterdam’s local government to form a more targeted strategy to lower the impact of over-tourism.

# 2. Data Description

We will use several sources of data for this analysis.

Data on Neighbourhoods of Amsterdam:

* GeoJson file containing different neighbourhoods [2].
* Neighbourhoods.csv: csv file containing latitude and longitude data for center point of each neighbourhood. The latitude and longitude data has been driven from Google Maps by selecting Ouder-en-Kind Stichting’s office location for each neighbourhood [3].

Data on Venues:

* Foursquare API [4]

Data on AirBnB listings:

* Listings.csv : csv file containing names, prices, neighbourhood, lat&long data for each AirBnB listing in Amsterdam [2].

We will use the latitude and longitude values of each neighbourhood to query Foursquare API to get a list of venues that are in the neighbourhood of these points. We will also get the categories for these venues from Foursquare API.

Later on, geojson file containing polygons for each neighbourhood will be used to plot maps of Amsterdam. In addition we derive and use number of Airbnb listings, average price and reviews for each neighbourhood.

Insights into the type of venues and number of airbnbs will gives us a good impression on the characteristics of the neighbourhoods.

# 3.References

[1] <https://www.amsterdam.info/basics/figures/>

[2] <http://insideairbnb.com/get-the-data.html>

[3] <https://maps.google.com>

[4] <https://developer.foursquare.com/docs/api-reference/venues/details/>