# **Perceived Touristic** Attractiveness in the Porto Metropolitan Area Based on Google Places Reviews: Introduction and Database

#### **Authors:**

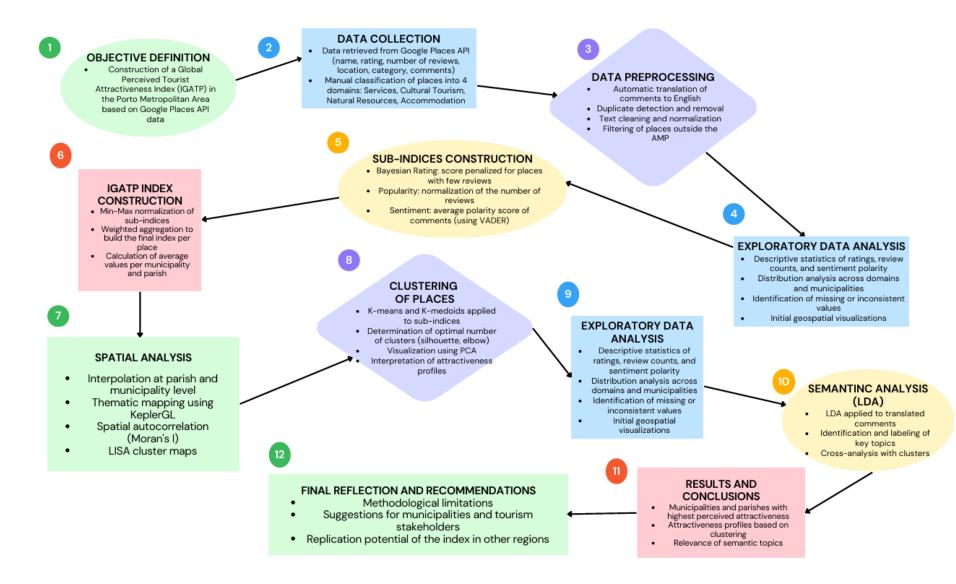
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# **Main Objective**

• To build a Global Index of Perceived Touristic Attractiveness (IGPTA) using user ratings and reviews.

• To explore spatial patterns of perceived attractiveness in the Porto Metropolitan Area.

## **Flowchart**



## What is Touristic Attractiveness?

#### **Solution** (project-specific):

"Touristic attractiveness refers to the degree to which a location captures visitors' interest and preference, based on online perception, shared experiences, and qualitative evaluation."

#### Note:

• The index focuses on **perceived attractiveness**, not actual tourist flows.

#### **Data Overview**

- **≯ Source:** Google Places API
- **Study Area:** 17 municipalities in the Porto Metropolitan Area (AMP)
- **Datasets:**
- google places AMP with coordinates.csv: place information + average rating
- comments\_google\_maps\_AMP.csv: up to 5 reviews per place

## **Data Overview**

## **Variable Dictionary – Ratings (google\_places\_AMP\_with\_coordinates.csv)**

Variable	Description
	Municipality where the point of interest is
City	located
	Category assigned to the place (restaurant,
	museum, hotel, bar, tourist attraction, cafe,
	church, park, natural feature, viewpoint, trail,
Category	lodging)
Name	Name of the establishment or point of interest
Rating	Average rating given by users for the place
Address	Full address of the place
Types	List of categories assigned by the Google API
Latitude	Geographic latitude coordinate of the place
Longitude	Geographic longitude coordinate of the place
Total	
Reviews	Total number of reviews received by the place

## **■ Variable Dictionary – Comments** (comments\_google\_maps\_AMP.csv)

Variable	Description
	Municipality where the point of interest is
City	located
	Category assigned to the place (e.g.,
Category	restaurant, hotel, park)
Place Name	Name of the establishment or point of interest
Author	Name of the user who wrote the comment
	Original text of the comment published by the
Text	user
	Relative date of the comment (e.g., 'a year
Date	ago')
Rating	Rating assigned in the comment (1 to 5 stars)

### **Database Structure**

#### Ratings (google\_places\_AMP\_with\_coordinates.csv)

avaliacoes.head() <pre></pre>										
	Cidade	Categoria	Nome	Rating	Endereço	Tipos	Latitude	Longitude	Total_Reviews	
0	Arouca	restaurant	Tasquinha da Quinta	4.6	R. 1º de Maio 3, 4540-121 Arouca, Portugal	restaurant, food, point_of_interest, establish	40.929109	-8.245191	2154.0	
1	Arouca	restaurant	A Assembleia	4.5	Tv. da Ribeira 11, 4540-102 Arouca, Portugal	restaurant, bar, food, point_of_interest, esta	40.928766	-8.247588	1788.0	
2	Arouca	restaurant	Parlamento	4.6	Tv. da Ribeira 2, 4540-148 Arouca, Portugal	restaurant, food, point_of_interest, establish	40.929011	-8.247392	2469.0	
3	Arouca	restaurant	Casa Testinha	4.5	R. 1º de Maio 4, 4540-113 Arouca, Portugal	restaurant, food, point_of_interest, establish	40.928876	-8.245147	623.0	
4	Arouca	restaurant	Pedestre 142	4.4	R. Dr. Ângelo Miranda 142 RC, 4540-140 Arouca,	restaurant, food, point_of_interest, establish	40.930185	-8.253210	1047.0	

#### Comments (comments\_google\_maps\_AMP.csv)

