



# The battle of Neighborhoods

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# INTRODUCTION

## BUENOS AIRES, ARGENTINA

- Buenos Aires is the financial, industrial, and commercial hub of Argentina.
- The economy in the city proper alone, measured by Gross Geographic Product (adjusted for purchasing power), totaled US \$ 84.7 billion (US\$34,200 per capita) in 2011 and amounts to nearly a quarter of Argentina's as a whole.
- We would like to open an **Italian restaurant** in Buenos Aires.

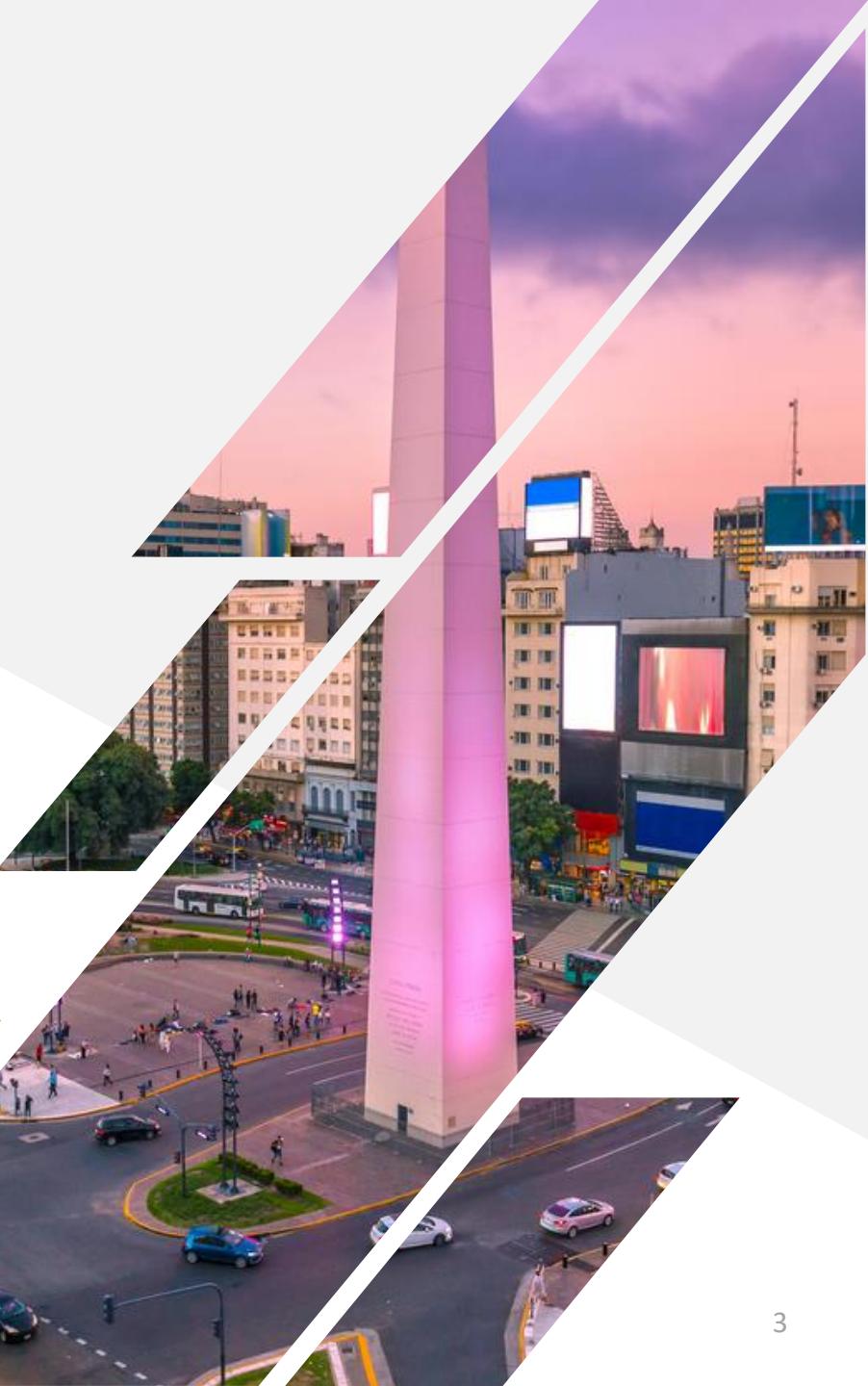


# INTRODUCTION

## BUENOS AIRES, ARGENTINA

Target Audience:

- A business entrepreneur that wants open a new Italian restaurant in Buenos Aires.
- Business Analyst or Data Scientists, who wish to analyze the neighborhoods of Buenos Aires using python, Jupiter notebook and some machine learning techniques.
- Someone curious about data that want to have an idea, how beneficial it is to open a restaurant and what are the pros and cons of this business.

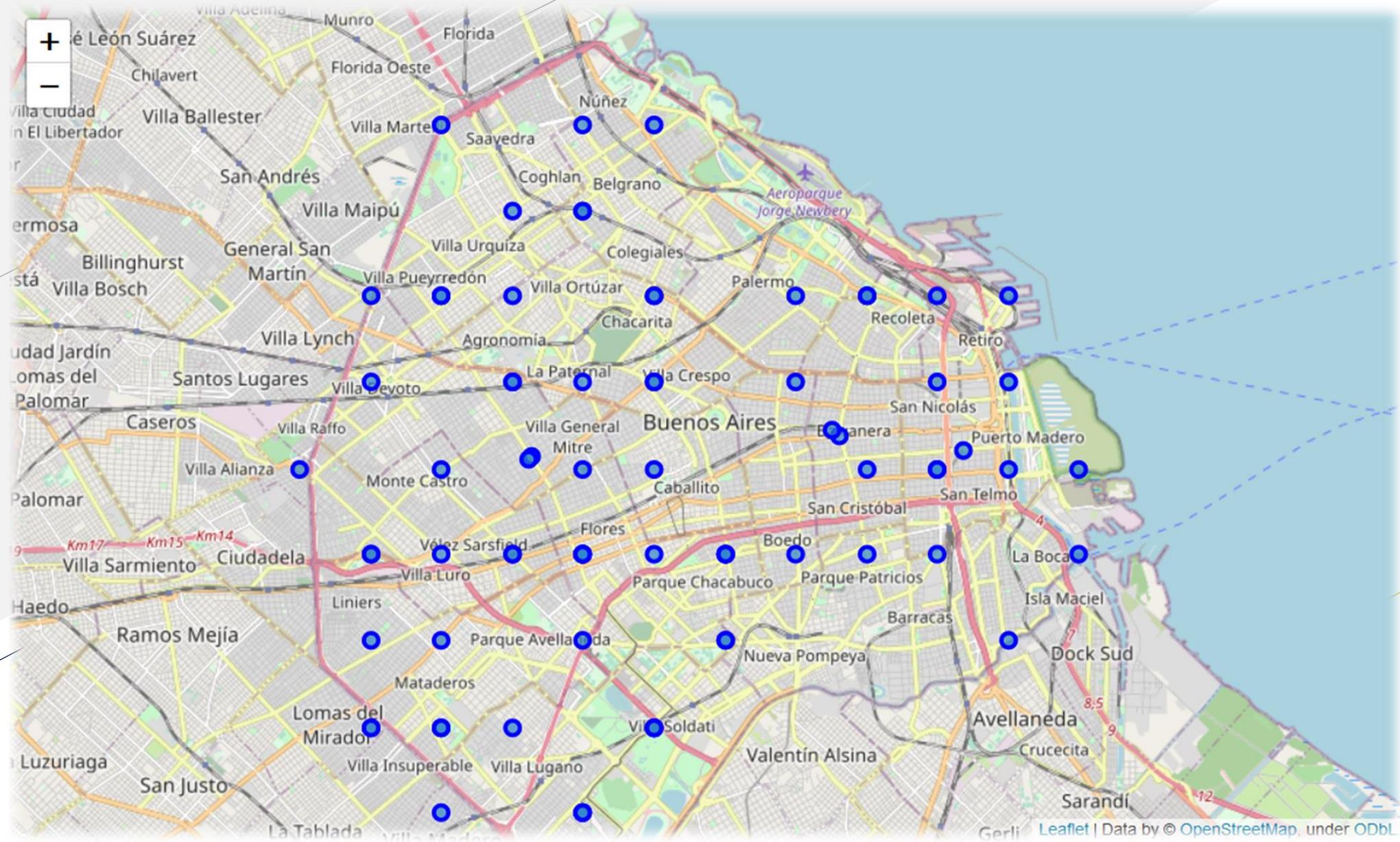


# DATA

## BUENOS AIRES, ARGENTINA

- First, we will find the latitude & longitude of Buenos Aires city center, using **Nominatim**.
- We will scrap the Neighborhoods of Buenos Aires from a webpage to create a dataframe. To do so, we will use **BeautifulSoup**.
- Later, we will see the result in a map, shown in the next slide. To do so, we will use **Folium**.





# DATA

## BUENOS AIRES, ARGENTINA

- Now that we know where the neighborhoods are located, we will use **Foursquare API** to get info on restaurants in each of them.
- The results are:
  - Total number of restaurants: 208.
  - Total number of Italian restaurants: 24.
  - Percentage of Italian restaurants: 11.54%.
  - Average number of restaurants in neighborhood: 2.43 .

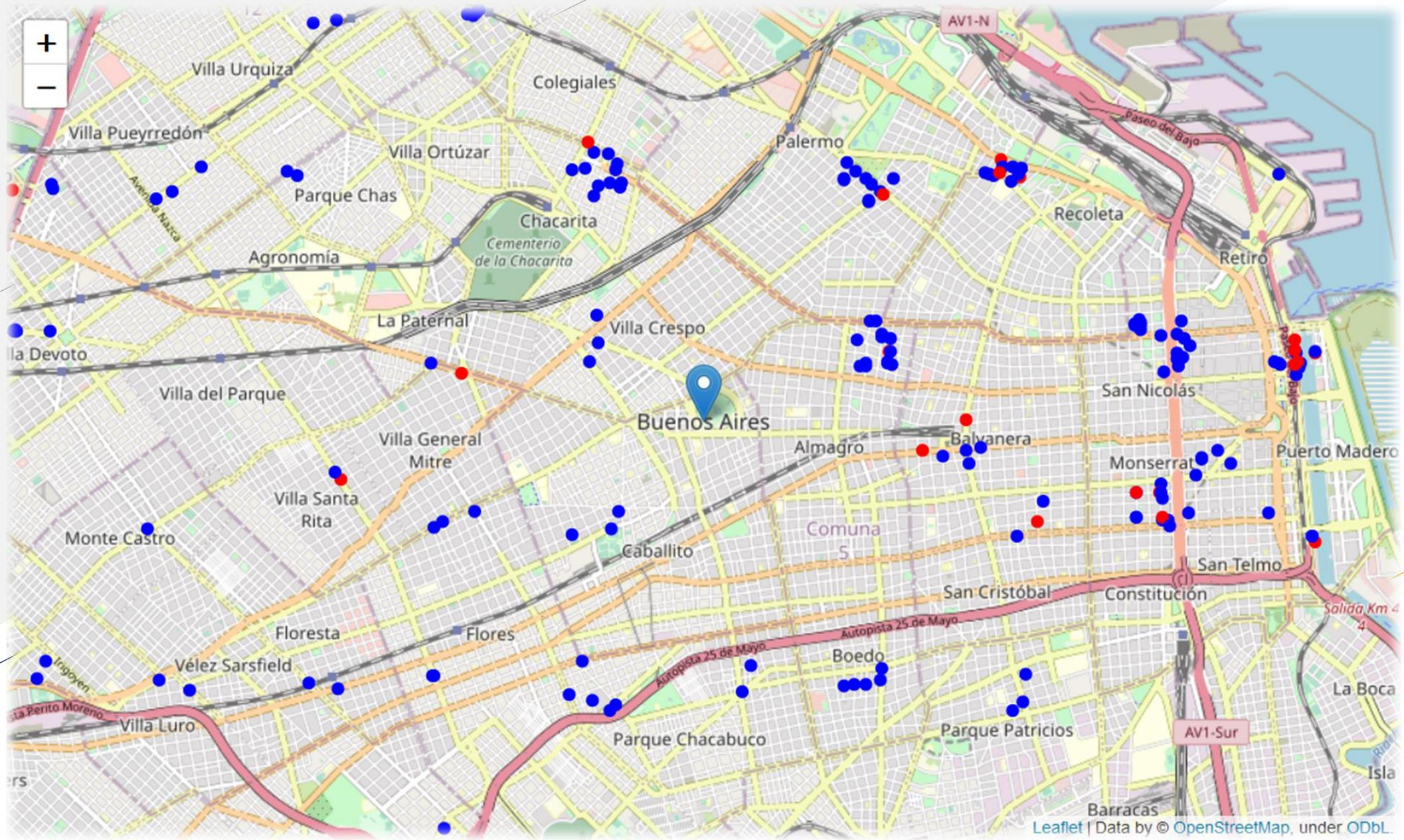


# DATA

## BUENOS AIRES, ARGENTINA

- We can see that 11.54% of restaurants are Italian. Let's see the result in a map! The red circles will represent **Italian restaurants** and the blue ones are **other types of restaurants**.





# METHODOLOGY

BUENOS AIRES, ARGENTINA

- For this report I used a few different maps that could help a new investor to decide the best neighborhood.
- In order to do that I've used the above information combined with maps to visually display the neighborhoods where the Italian restaurants are situated.



# ANALYSIS

## BUENOS AIRES, ARGENTINA

- We will see in the next slide a map showing the “Italian Restaurant density” in Buenos Aires city.
- The red areas represent high levels of said density, and the light blue are the lowest levels of that density.





José León  
Suárez

MUNRO

Villa Ballester

na Hermosa

ir

ermosa

Billinghurst

Villa Bosch

udad Jardín  
Lomas del  
Palomar

Caseros

Palomar

General San  
Martín

Villa Lynch

Sáenz Peña

BUEÑOS AIRE

FLORE

Haedo

RAMOS MEJÍA

Luzuriaga

SAN JUSTO

Lomas del  
Mirado

PARQUE  
AVELLANED

Valentín Alsina

NUEVA  
POMPEYA

AVELLANEDA

Sarandí

Dock Sud

# **RESULTS and DISCUSSION**

**BUENOS AIRES, ARGENTINA**

In this project I tried to set up a realistic data-analysis scenario using several different ways such as: web scraping, some powerful python libraries eg. Folium, Foursquare API, etc.



# RESULTS and DISCUSSION

## BUENOS AIRES, ARGENTINA

Let's see what we have found:

- There are certain areas with high 'Italian Restaurant density', such as Puerto Madero or Recoleta.
- There are other areas such as Parque Patricios or Caballito where said density is medium.
- Lastly, there are areas like Retiro or Villa del Parque, where there are little to none Italian restaurants.

We would suggest the stakeholders to invest in a new Italian restaurant in the areas with low restaurant density.



# CONCLUSION

BUENOS AIRES, ARGENTINA

- Thanks to this project I've now got a small glimpse of how real life data-science projects look like.
- I've made use of some frequently used python libraries to scrap web-data, use Foursquare API to explore the neighborhoods of Buenos Aires and saw the results of it using Folium maps.

