IBM Cogntive Class Amsterdam Project

Patrick

Creating insights and making data widely available for everybody

This challenge focusses on combining specific datasets from the municipality of Amsterdam and the FourSquare API to provide new insights. Using hospitality data a recommendation will be made to select neighborhoods to determine where to start if you are looking for a house.

Section Overview

Amsterdam Hospitality

A starting point for house searching

Finding a place in Amsterdam is not easy...

As an expat you might run into trouble that you do not know all the characteristics of the 400+ neighborhoods within Amsterdam.
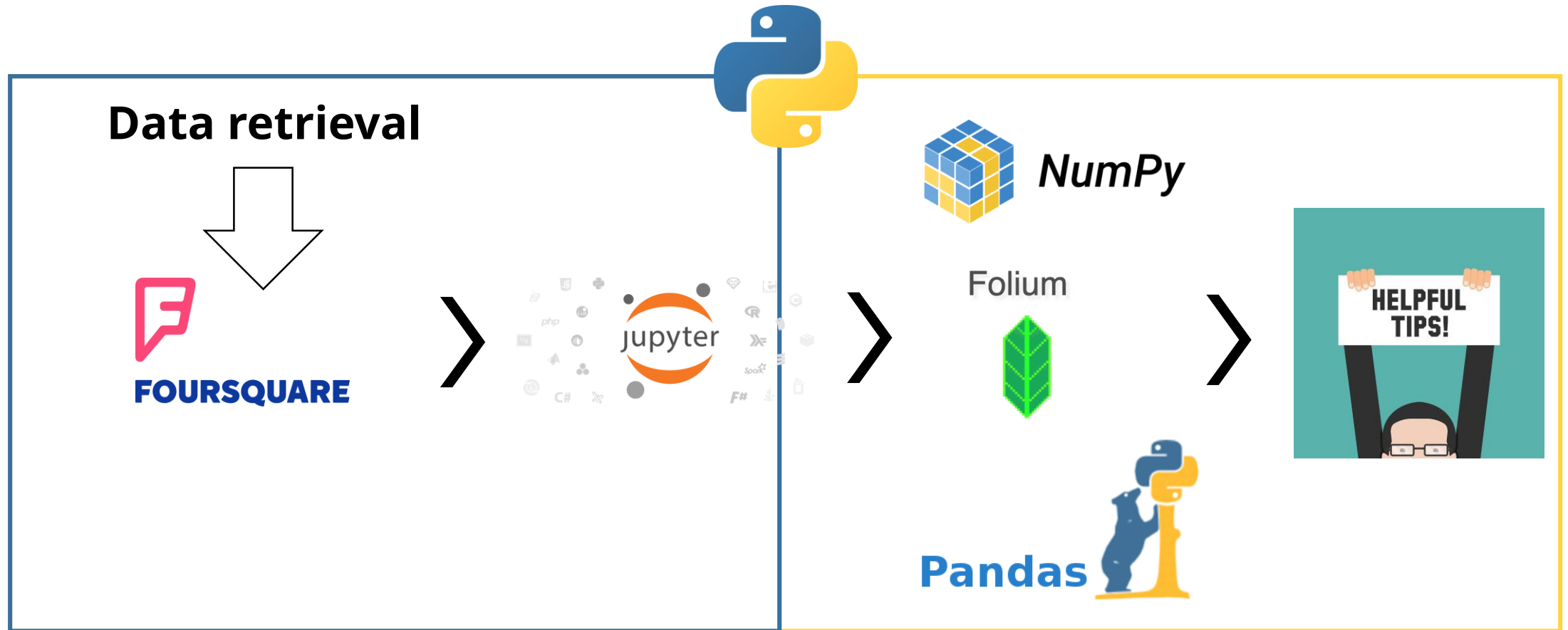
Where does your search start?

As a young urban professional and expat coming to the municipality of Amsterdam you want to be in an active neighborhood that includes enough hotspots to get to know more people.

- Which neighborhoods are more heavily populated related to hospitality within Amsterdam?

- Is the distribution across neighborhoods and boroughs evenly distributed?

- Where would you like to start looking if you are fond of Italian restaurants?
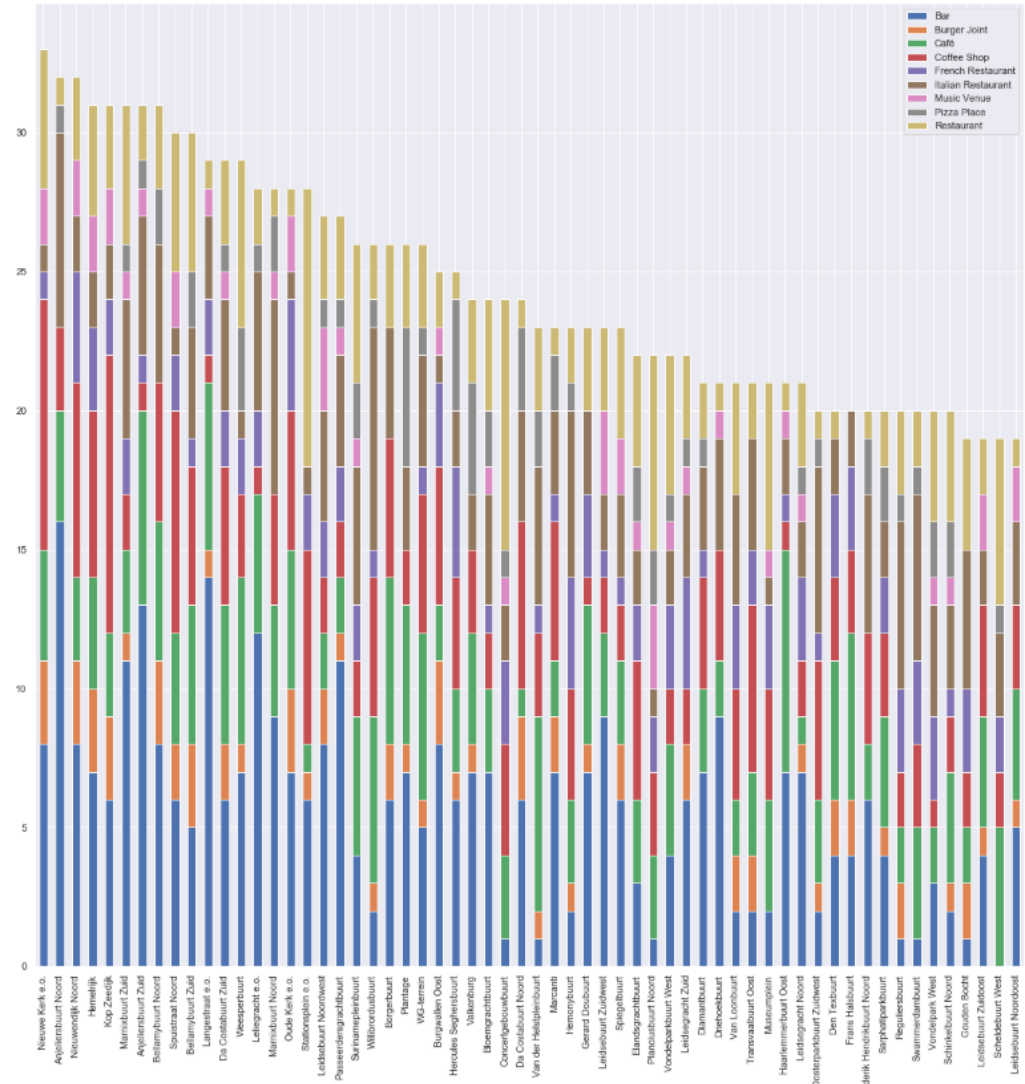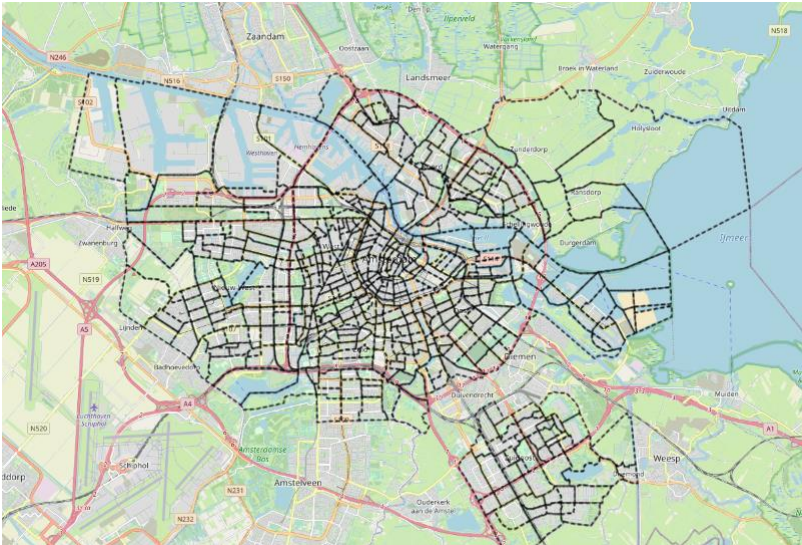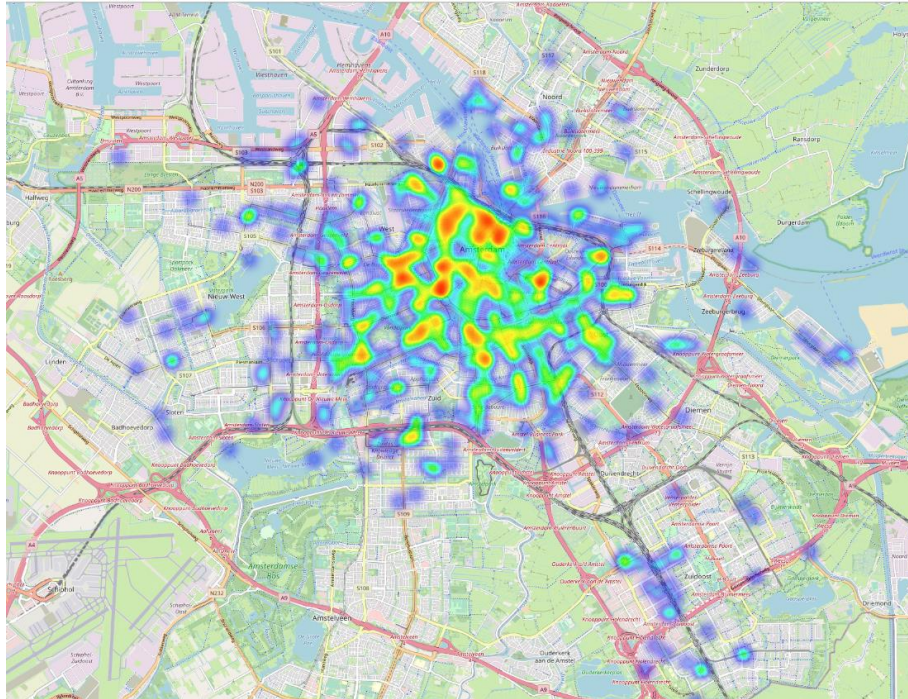
Architecture of the project

Data retrieval

Results – Top 10 Neighborhoods

Depending on your personal taste within hospitality these are the ten neighborhoods with the highest availability

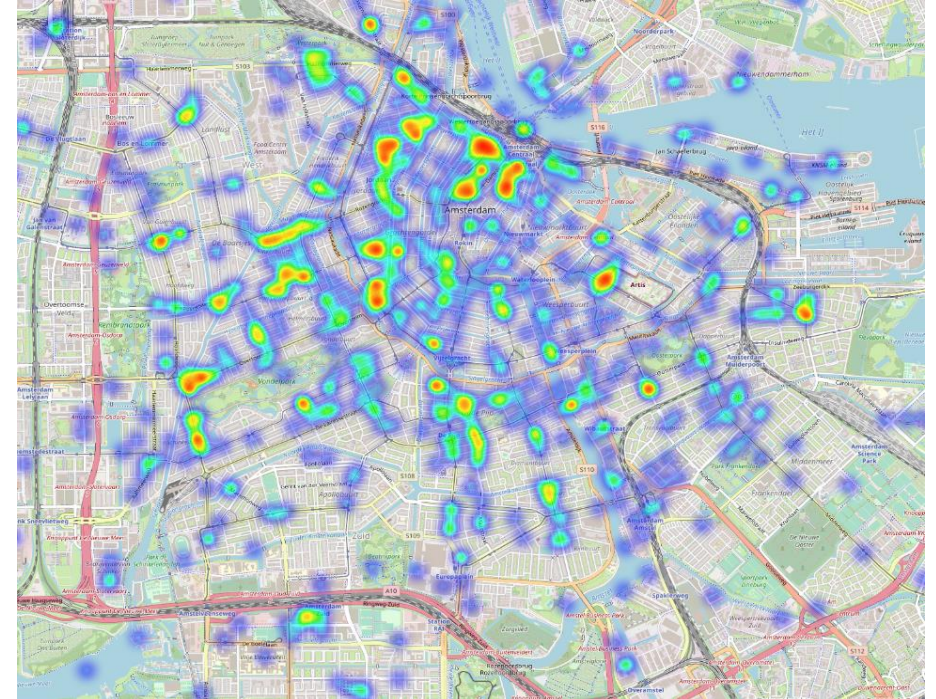| Neighborhood	Bar	Burger Joint	Café	Coffee Shop	French Restaurant	Italian Restaurant	Music Venue	Pizza Place	Restaurant	Total
Nieuwe Kerk e.o.	8	3	4	9	1	1	2	0	5	33
Anjeliersbuurt Noord	16	0	4	3	0	7	0	1	1	32
Nieuwendijk Noord	8	3	3	7	4	2	2	0	3	32
Hemelrijk	7	3	4	6	3	2	2	0	4	31
Kop Zeedijk	6	3	3	10	2	2	2	0	3	31
Marnixbuurt Zuid	11	1	3	2	2	5	1	1	5	31
Anjeliersbuurt Zuid	13	0	7	1	1	5	1	1	2	31
Bellamybuurt Noord	8	3	5	5	0	5	0	2	3	31
Spuistraat Noord	6	2	4	8	2	1	2	0	5	30
Bellamybuurt Zuid	5	3	5	5	1	4	0	2	5	30

Results – Heatmap based on hospitality

The heatmap shows that the Centre of Amsterdam is more heavily populated compared to other regions in Amsterdam.
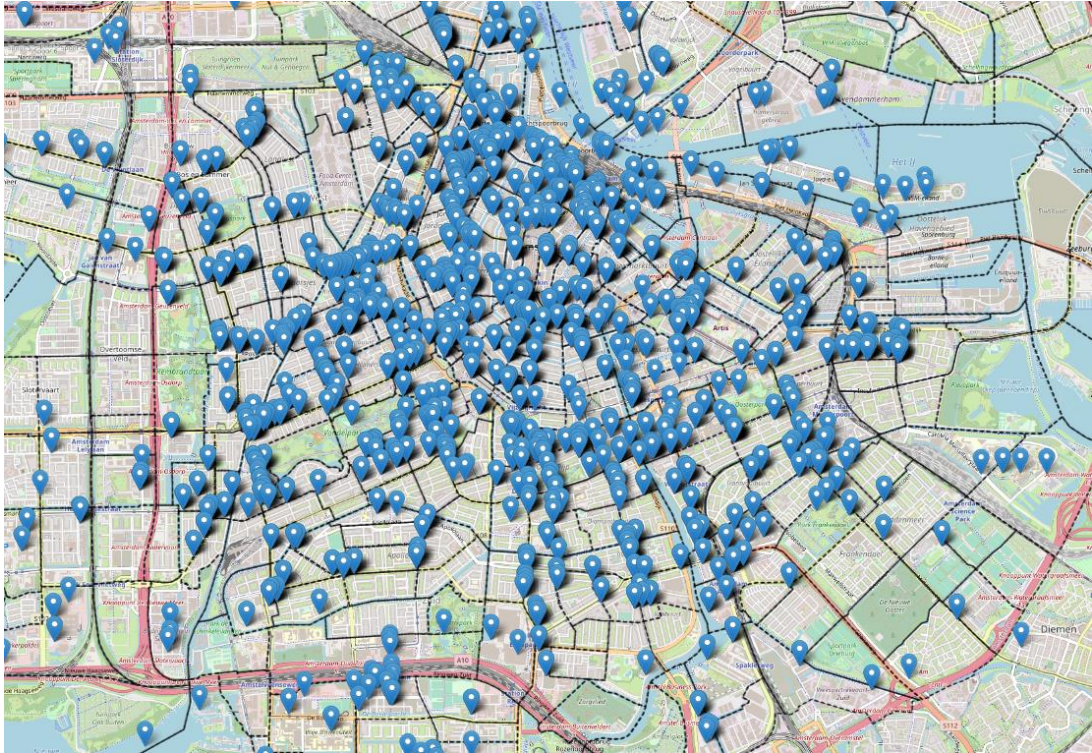

Amsterdam - Complete

Amsterdam – Zoomed in Centrum

Based on personal preference it is possible to zoom in on specific neighborhood

In this case our recommendation is to start **searching in the city center** if you are fond of hospitality.

Thank you.

Patrick Colijn