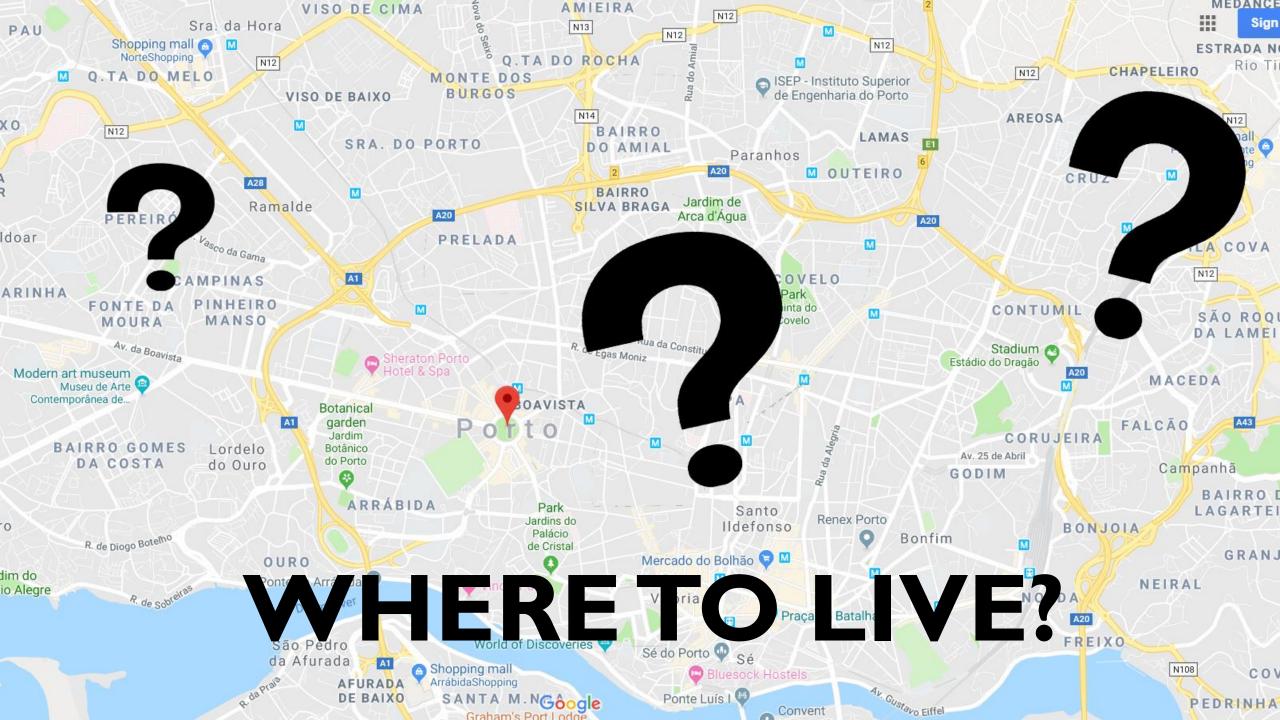
PROJECT P

PINPOINT PERFECT PARISH IN PORTO

RELOCATION TO PORTO CITY





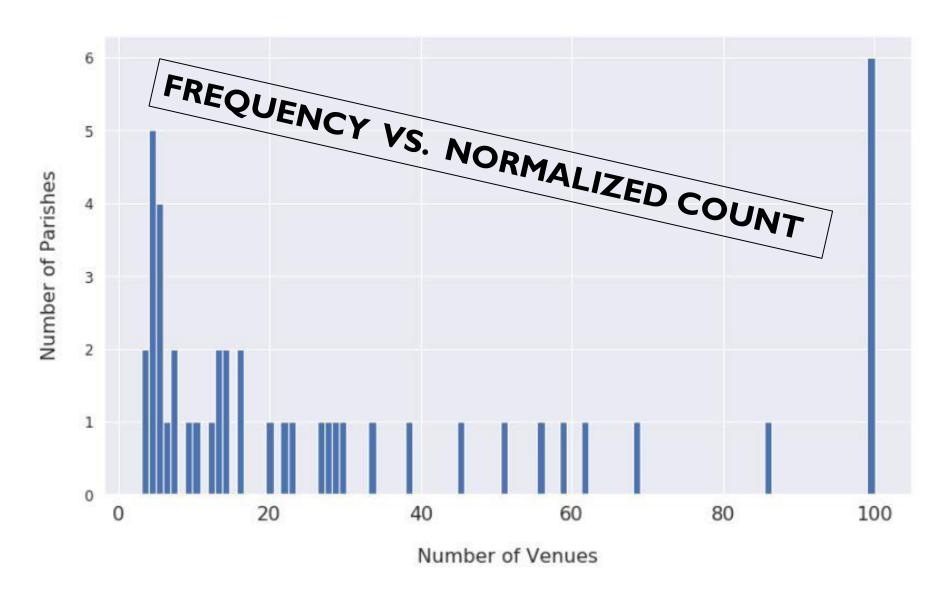




- List of all Parishes (administrative division of Portugal, Wikipedia)
- Geocoding services: coordinates, distances
- Foursquare: venues
- Customer's preferences: feature weights

Sample customer: FEUP student

CHOICE OF METRICS



FEATURE ENGINEERING

American Re Argentinian Art Gallery Art Museum Arts & Crafts Asian Restaur Athletics & Sp Auto Garage B BBQ Joint

Fish & Chips Shop

wer Shop ISTANCES

od & Drink Shop

od Court od Truck

ed Chicken

rniture / H

Bagel Shop

Bakery

Bar

Reach

Garden

Gas Station

VENUES Gastropub Gift Shop

Gourmet Shor

Nightclub

Other Great Outdoors

Park ry Shop Store

rmacy

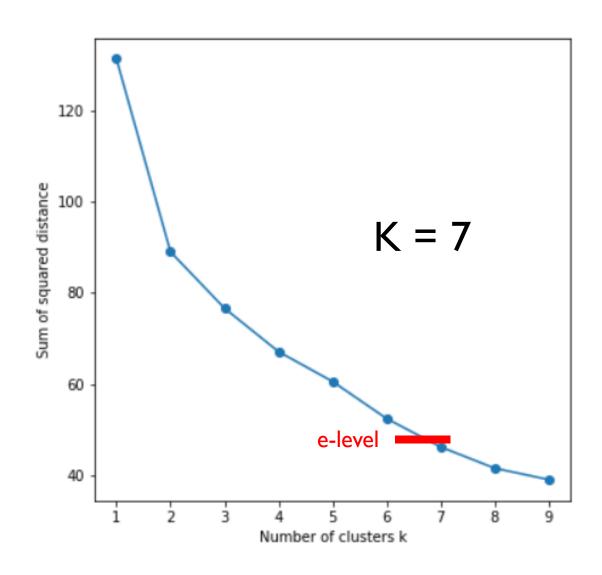
a Place etarium

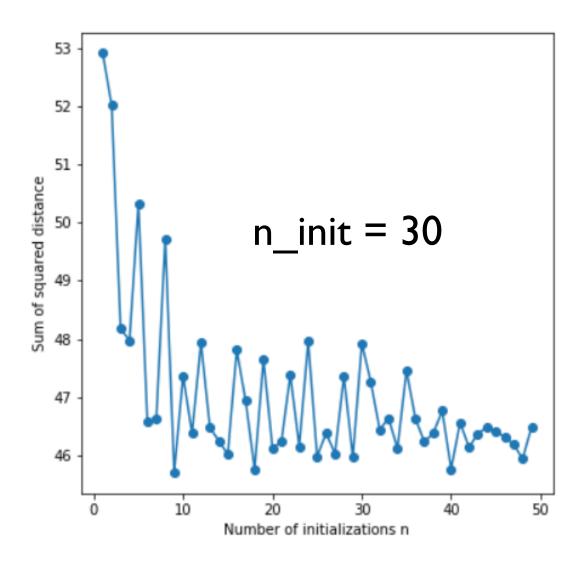
ground

CUSTOMER'S PREFERENCES

Feature	Importance	Description			
Remoteness_km	Important	tance to City Centre			
Airport_km	Important				
Unversity_FEUP_km	Normal Not important				
To_sea_km	Normal	Distance to seashore			
Alcohol	Normal				
Arts & Museums	Not important				
Basic Shops & Services	Normal				
Café and Desserts	Important				
Car Service	Normal				
Chillout	Not important	Spa etc.			
Entertainment	Not important				
Fitness & Sports	Important				
Food Places	Normal				

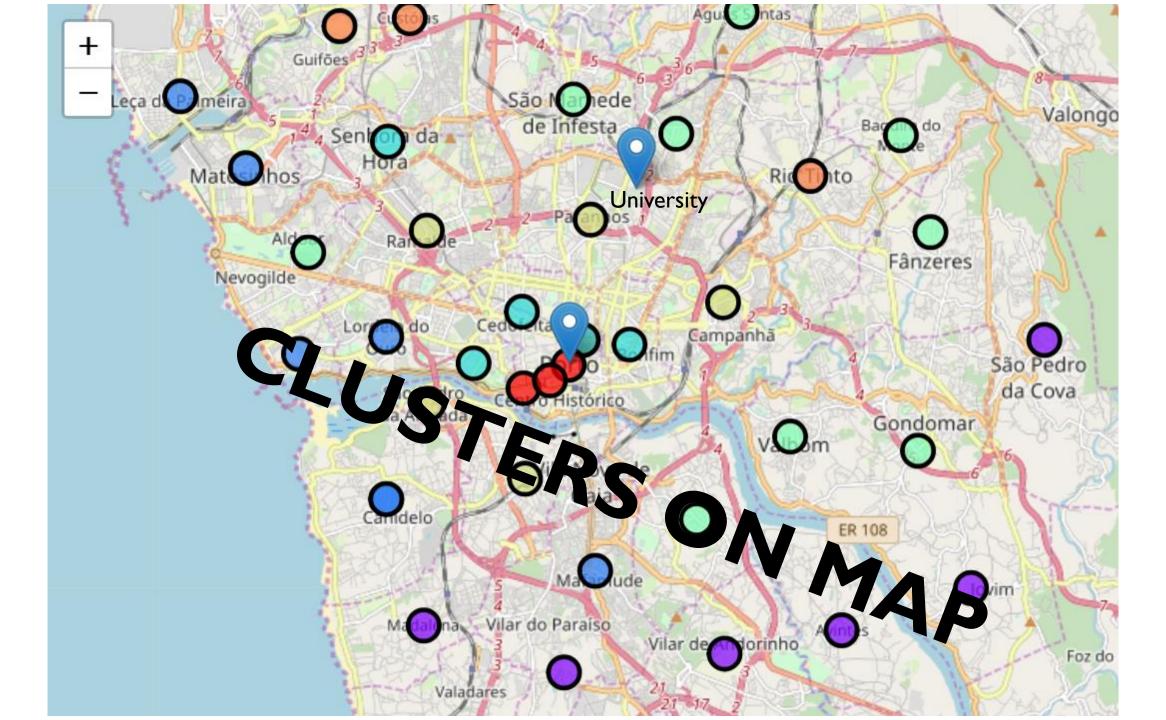
MODEL SELECTION K-means++ clustering





CLUSTER PROFILES

	Municipality	Parish	Latitude	Longitude	Cluster	1st Fea	ture	2nd Fea	ature	3rd F€
43	Vila Nova de Gaia	Vilar de Andorinho	41.101582	-8.576659	0	Unversity_FEU Ou	P_km R tsider	Remoteness N	s_km T lormal T	o_sea_km
45		Cluster 0	41.149451	-8.610788	0	Unversity_FEU Ou	P_km To_ tsider	sea_km N	lormal	Remotenes C
	Remoteness	_km Unver	sity_FEUP_	km To_sea	ı_km Alco	Basic ohol Shops & Services	Café and Desserts	Car Service	Fitness & Sports	Food Places
Clus	ter									
Clus	ter Outs	sider	Outsi	der No	ormal No	rmal Normal	Outsider	Normal	Outsider	Outsider
4										



GREEN: "Mediocrity"



CONCLUSION

The study useful for anyone who is going to relocate in Porto or just to explore its Parishes in detail.

Future improvements:

- Denser geo-data
- More geo-data providers
- More info about local venues
- More interesting visualization
- Web-based application

THE END

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