



IBM DATA SCIENCE CAPSTONE PROJECT

THE BATTLE OF NEIGHBORHOODS – ANALYZED ON AMSTERDAM

BUSINESS PROBLEM

- 1. Is the place suitable for opening a restaurant?
- 2. Is it a good place for a constracter to start his/her own business, i.e. to setup his/her office?

OUR GOAL

To analyze: Is Amsterdam being a well multicultural place to satisfy the above two main business problem?



INTRODUCTION ON AMSTERDAM

- The largest city in the Netherlands
- Have a population of 1.16 million
- This place with approximately 178 different cultural backgrounds
- It hosts many cultural events throughout the year, which emphasizes their worldly view



DESCRIPTION OF DATASET

- Data scraping from https://en.wikipedia.org/wiki/Category:Neighbourhoods of Amsterdam
 m to get Neighbourhoods of Amsterdam
- Use geopy library to get the latitude and longitude values of Amsterdam
- Use Foursquare API to get data of venue



METHODOLOGY

- Explore and load dataset from website link
- Data transformation by pandas
- Use one-hot encoding to do features extraction
- Get latitude and longitude values of Amsterdam and plot the map
- Apply FourSquare API in all the neighbourhoods on Amsterdam
- Use k-means clustering to visualize the clusters



THANKYOU!

End of week 4's task

