# INTRODUCTION

I recently graduated from university and come to the biggest city in my country to pursue my career. In addition to being the largest city in Turkey, Istanbul is one the largest cities in the world with an approximately 20 million residents. My girlfriend has also graduated from the same university in the same year and we both decided to look for jobs in Istanbul. We are now settled in Göktürk Mah. / Eyüpsultan and actively working in different jobs in the European side of the city.

Initially, we did not know what to expect about living here and we had not have any experience about the inner workings of the city except the common knowledge about the traffic problems of the city. Therefore, we planned to accommodate here in Göktürk Mahallesi for a year and in the meantime look out for other neighborhoods around the city to decide if it is wise to move out. Our main concerns regarding the neighborhood that we will accommodate are rent prices, art and entertainment venues around the neighborhood and the distance from our jobs.

Considering all those variables, we can cluster the neighborhoods of Istanbul and focus on the cluster that suits us best. I believe this analysis will help me and my girlfriend in the future regarding our move out plans.

# DATA

İstanbul has 39 district [1]. 25 of them will not be considered for this project because it is infeasible for us to accommodate since they are too far away from our jobs and city centers. After taking out those 25 district we have left with 14 district namely, Ataşehir, Bayrampaşa, Beşiktaş, Beyoğlu, Eyüpsultan, Fatih, Gaziosmanpaşa, Kadıköy, Kağıthane, Sarıyer, Şişli, Ümraniye, Üsküdar and Zeytinburnu. These 14 district has total of 367 neighborhoods and in our analysis we will focus on these neighborhoods [1]. I do not have coordinates for the centers of those neighborhoods and average rent prices because the data is not readily available. Therefore, I cannot present them right now. But with a little bit hand work they will be ready to use and I will use this data to get the venue information from Foursquare API and then cluster 367 neighborhoods with respect to its venues and rent prices.

# REFERENCES

* [1] <https://en.wikipedia.org/wiki/List_of_neighbourhoods_of_Istanbul>