Applied Data Science Capstone

Capstone Project - The Battle of Neighborhoods

Istanbul

Introduction

If one thinks about openning a restaurant in Istanbul, how does s/he decide where to open this restaurant? In this project, the main goal is to answer this question. To achieve this, the neighborhoods of Istanbul will be under examination. The most eligible neighborhoods will be presented as a group with their common features.

The venues in neighborhoods will constitute the determined criterion in this endeavour because venues display the socio-cultural structure of their environment. For example, if a university is taken into consideration as a venue, around a university one may expect to find a society with higher education background and venues supporting university activities like stationaries, cafes and social hubs. Therefore, if there is a university in a neighborhood, the mentioned features can be related to that neighborhood. With this information, it can be said that examining venues in a neighborhood can give characteristics of that neighborhood.

In conclusion, during this project, neighborhoods of Istanbul will be divided into groups considering which venues are in those neighborhoods using machine learning algorithms. From these groups, the most eligible one will be selected and features of this group will be displayed using the venue information of this group.