Applied Data Science Capstone project - Dubai Neighborhood Analysis

By: Giridhar Reddy Kolan
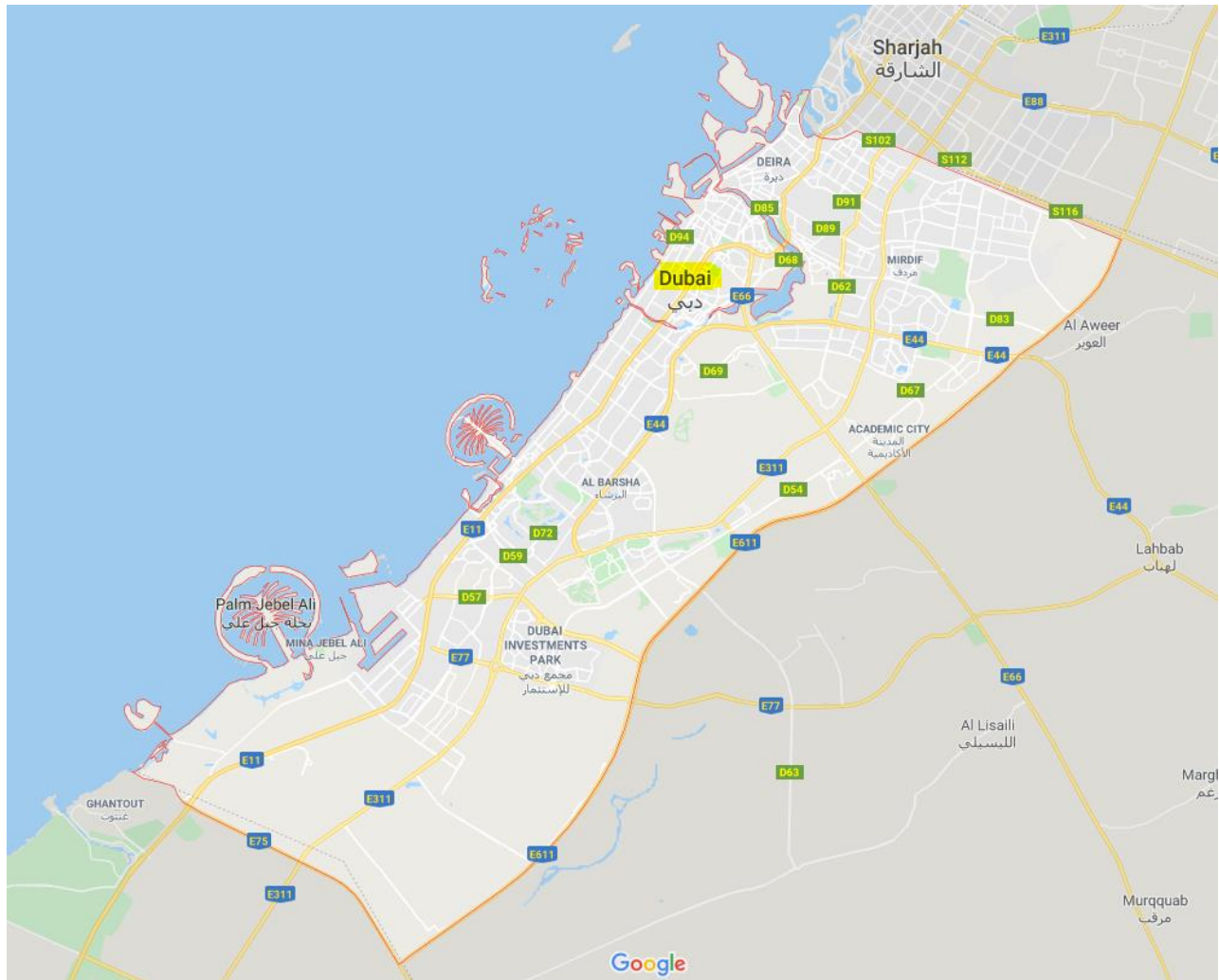
I: INTRODUCTION/BUSINESS PROBLEM

Dubai is the largest and most populous city in the United Arab Emirates, located on the Eastern coast of the Arabian Peninsula. As per Dubai statistics center estimates of 2018, there are approximately 3.2 million residents from over 200 nationalities plus ever increasing tourists and traders on any given day.

Due to its warm hospitality, rich cultural heritage, best in class infrastructure, tax-free income and a strategic location in the center of the major trading continents Dubai has fast become one of the world's most popular tourist destinations and the best city to do business.

As the population of the city is growing rapidly and inflow of tourists is ever increasing, and which will be amplified with the approaching World Expo 2020, there is best opportunity for all prospective investors to venture into Food and Beverage (F&B) industry.

Upon quick checking of the Dubai F&B statistics data, it was found that there is huge potential for Japanese restaurants serving authentic Japanese Sushi Sashimi and other healthy food options.

The main objective of this project to use machine learning technics such as K-Means Clustering on geospatial / location data from Foursquare API and other sources to find out best location for opening new Japanese restaurants.

Project Location: Dubai City