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IBM Data Science Professional Certificate

Applied Data Science Capstone

Capstone Project - The Battle of Neighborhoods

Selecting Best Location to open a new Sports Mall in Giza Governorate, Egypt
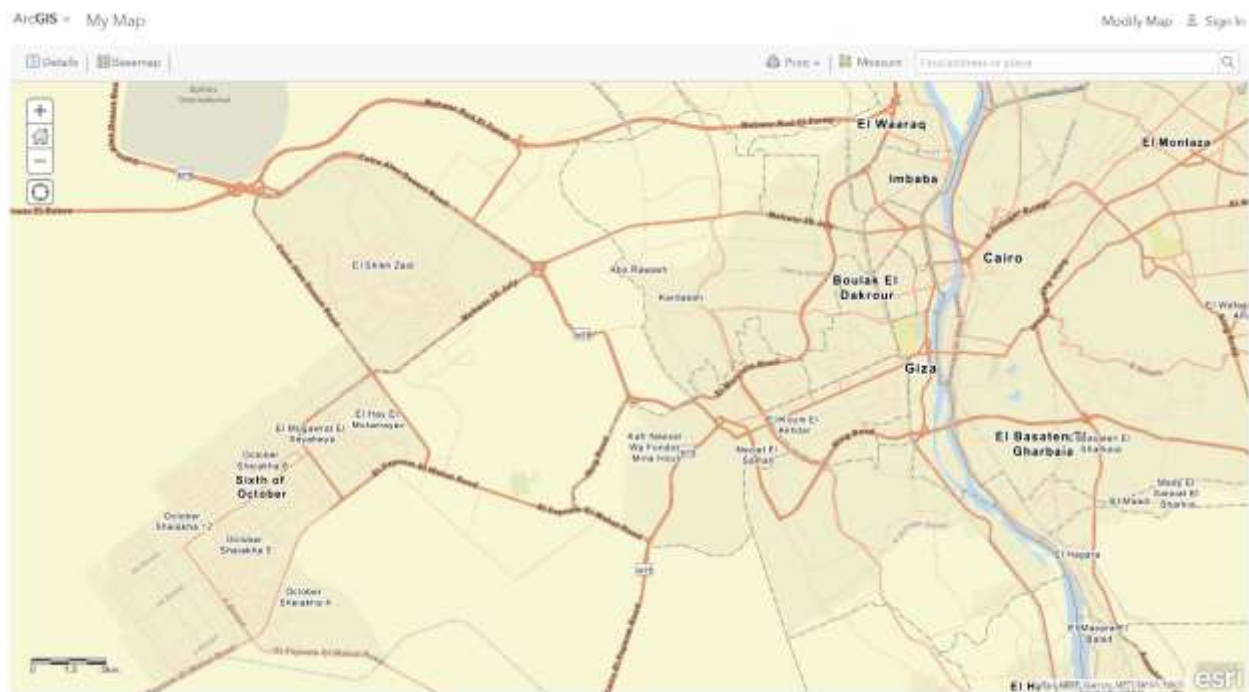

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1. Introduction

The aim of the this project is to utilize the use of Data Science & Location Data to select the optimum location for establishing Sports Mall in Giza Governorate, Egypt to serve the existing sporting facilities in the selected governorate.

2. Intended Audience

The intended audience are as follows;

1- Investors
2- Municipalities
3- Real Estate Developers

3. Business Understanding

The target is to select the best location for opening a Sports Mall.

4. Data Requirements

The required data to fulfil the above business requirements are as follows;

1. Municipal divisions of Giza Governorate
2. Longitude & Latitude coordinates for Municipal Divisions
3. Characteristics of each municipal division for existing venues and its categories

5. Data Collection

The data sources which will be used to fulfil the above requirements are as follows;

1. Municipal divisions of Giza Governorate https://en.wikipedia.org/wiki/Giza_Governorate , the image below shows brief about the governorate and Municipal Divisions data that will be used.

2. Geocoding Services of ArcGIS https://geocode.arcgis.com/arcgis/ for getting the longitude & latitude coordinates for Municipal Divisions

3. FourSquare API to get the exisiting venues and its categories that will be used for classifying and clustering the different Municipal Divisions https://foursquare.com/explore?mode=url&ne=30.111276%2C31.307774&sw=29.927267%2C31.020069