High Schools in Baton Rouge Neighborhoods

IBM Data Science Course Capstone Project
May 17, 2020

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Introduction

East Baton Rouge Parish is the most populous parish in the U.S. state of Louisiana. The parish seat is Baton Rouge, Louisiana's state capital. Baton Rouge is the capital city of the state of Louisiana. Baton Rouge is the center of Greater Baton Rouge, the second-largest metropolitan area in Louisiana, with a population of 834,159 as of 2017, up from 802,484 in 2010 and 829,719 in 2015.[1]

East Baton Rouge Parish Public School System (EBRPSS) operates primary and secondary schools serving the city. The East Baton Rouge Parish School System is the second-largest public school system in the state with more than 40,000 students. The system has 90 schools with 56 elementary schools, 16 middle schools, and 18 high schools.[2]

Discussion

Baton Rouge's population has been growing. There has been a discussion among the Baton Rouge Community about the need of a new high school in the south side of the city. The EBRPSS is looking for building another facility to meet the need.[3]

In this project, I would like to explore schools in Baton Rouge using Foursquare location data, and try to figure out where to open a new high school in Baton Rouge.

Data Description

Baton Rouge has many neighborhoods both inside and outside the city limits. City of Baton Rouge and Parish of East Baton Rouge use GIS(Geographic Information Systems) technology. The City-Parish has a publicly available EBR GIS platform which can be used for exploring and downloading open data, discovering maps and apps, and engaging your local government to solve important community issues. Through this platform, the City-Parish shares a vast amount of geospatial data with everyone.[4]

EBRGIS platforms has a data set available which provides information about the population of neighborhoods in Baton Rouge. The figure below shows the attributes of the data set:

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[1] https://en.wikipedia.org/wiki/Baton_Rouge,_Louisiana
[2] https://en.wikipedia.org/wiki/Baton_Rouge,_Louisiana#Education
[3] https://www.theadvocate.com/baton_rouge/news/education/article_1cb93a98-120b-11e8-bd0d-6f3e02c44af7.html
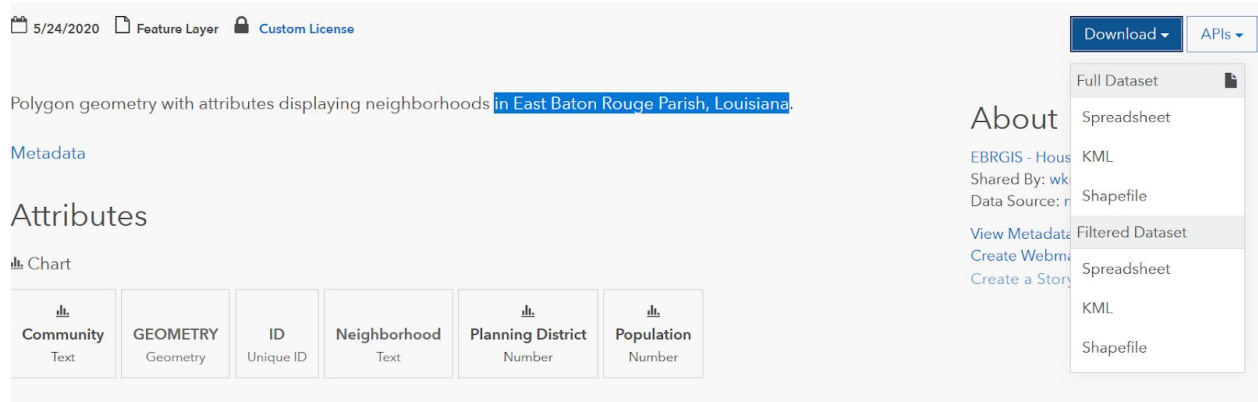[4] https://web-ebrgis.opendata.arcgis.com/

Figure I - GIS Data displaying neighborhoods

The data set is available to download as an KML file. Keyhole Markup Language (KML) is an XML notation for expressing geographic annotation and visualization within two-dimensional maps and three-dimensional Earth browsers. KML was developed for use with Google Earth, which was originally named Keyhole Earth Viewer. It was created by Keyhole, Inc, which was acquired by Google in 2004.[5]

I would like to explore the number of high schools around each neighborhood in Baton Rouge compared to their latest population data. The goal would be to figure out which neighborhood has the least number of high schools. Based on findings, I will recommend top neighborhood choices to open a new high school in the city.
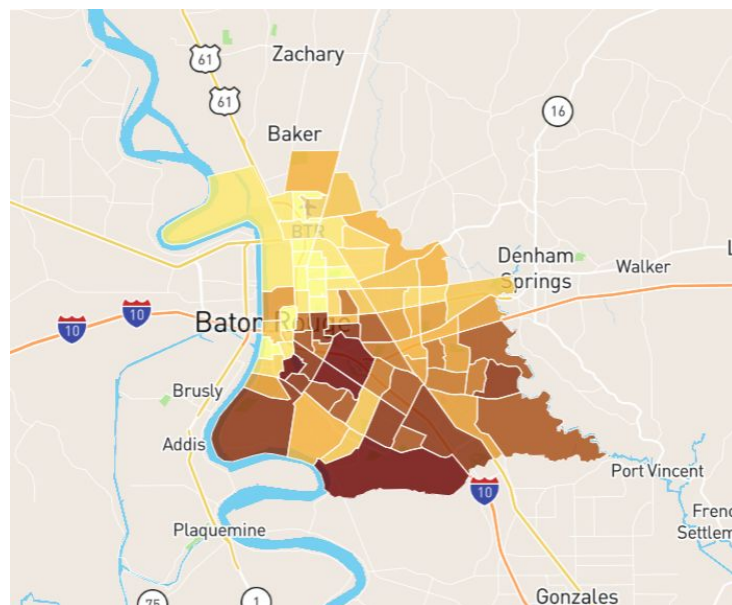

Figure II - Neighborhoods in Baton Rouge[6]

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[5] https://en.wikipedia.org/wiki/Keyhole_Markup_Language
[6] https://www.neighborhoodscout.com/la/baton-rouge

Methodology

Results

Discussion

Conclusion