G.L.A.P.S

Geographic Location Attribute Predictor System

G.L.A.P.S will be a web application that will predict the future value of homes in a particular area. The software uses data from the United States Census to predict the future values of homes in the Fayetteville area. A minor league baseball stadium is scheduled to open in Cumberland County (Fayetteville) in April of 2019. We have gathered data from counties in other areas of the U.S. that also had minor league baseball stadiums open within the past eight years. Our data will be held in a sqlite3 database.

We have gathered data from three years before the stadiums opened and three years after. We will be feeding this data into to a Python machine learning program to forecast the values of homes in Fayetteville three years after the stadium has opened its doors. Tensorflow and Keras are the Python machine learning libraries we will use. We plan to try them both and then utilize whichever is more efficient. We may end up using only one or a combination of both.

G.L.A.P.S will be helpful for those that are interested in buying or selling a house in a certain area, those that are deciding where to move to or those that wish to predict the future value of a home that they own. It may also be beneficial to local government entities to predict the growth of an area or tax values.

The user will enter an address into the web-based front end and a value will be returned to the user. Initially, we will only predict the value of homes and we will stick to areas that relate to minor league baseball stadiums. In the future, we hope to broaden the results of G.L.A.P.S by allowing the user to search for a variety of attributes such as predicted changes in population, income levels, education levels and property tax rates. We would also like to expand the system so that we are not limited to only areas related to baseball stadiums.