

Impact of high-school neighborhood business environment in Public Education

Introduction/Business problem:

High-School is a major bridge to college Education and activities/engagement in high-school pretty much defines future of college going students. What goes inside the high-school is important, however it seems, what environment/business available around high-school also plays equally important role. As part of the project, we would like to compare two Highest Ranking High-School in two US states. Pick two US states by ensuring the economic data being same. Compare and analyze High-schools along following lines.

1. Find the top 5 venues and their type in 1-mile radius of the High-school.
2. Find the high-school enrollment and attendance rate.
3. Find the college enrollment percentage of such high-school.
4. Understand the relationship between types/nature of businesses and performance of the high-school on points 2 and 3 above.
5. Understand if the analysis is relevant and conclusive and if so, can it provide some insights and tips in improving public educations in general.

For the analysis, New Jersey and Ohio State are being picked as states to compare highest ranking high-schools. The states are picked by comparing the personal income and personal income rate change for US states, using data from Bureau of Economic Analysis (<https://www.bea.gov/system/files/2018-12/spi1218.pdf>).

Data:

1. School data. We look to utilize following data available for school stats
 - 1.1 School ranking and report data
 - 1.1.1 National Education Association - http://healthyfutures.nea.org/assets/docs/180413-Rankings_And_Estimates_Report_2018.pdf
 - 1.2 Best Public high-school in New Jersey (Process and conclude top high-ranking)
 - 1.2.1 State of New Jersey - Department of Education - <https://rc.doe.state.nj.us/SearchForSchool.aspx>
 - 1.2.2 US News - <https://www.usnews.com/education/best-high-schools/new-jersey>
 - 1.3 Best Public high-school in Ohio (Process and conclude top high-ranking)
 - 1.3.1 Ohio Department of Education - http://education.ohio.gov/lists_and_rankings
 - 1.3.2 US news - <https://www.usnews.com/education/best-high-schools/ohio>
2. Location data – Foursquare API to find top 5 venues in 1-mile radius.