

Correlation between a neighborhood real estate price and its surrounding venues

This report is for the final course of the Data Science Specialization. A 9-courses series created by IBM, hosted on Coursera platform. The problem and the analysis approach are left for the learner to decide, with a requirement of leveraging the Foursquare location data to explore or compare neighborhoods or cities of your choice or to come up with a problem that you can use the Foursquare location data to solve. The main goal will be exploring the neighborhoods of New York city in order to extract the correlation between the real estate value and its surrounding venues.

The idea comes from the process of a normal family finding a place to stay after moving to another city. It's common that the owners or agents advertise their properties are closed to some kinds of venues like supermarkets, restaurants or coffee shops, etc.; showing the "convenience" of the location in order to raise their house's value. So, can the surrounding venues affect the price of a house? If so, what types of venues have the most affect, both positively and negatively?

The target audience for this report are:

1. Potential buyers who can roughly estimate the value of a house based on the surrounding venues and the average price.
2. Real estate makers and planners who can decide what kind of venues to put around their products to maximize selling price.
3. Houses sellers who can optimize their advertisements.
4. And of course, to this course's instructors and learners who will grade this project. Or to anyone who catch this shared on the social media showing that I can use Python data science tools.