

Real Estate Affordability based on Price to Income and Venue Data Analysis of London, UK

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Data Description

In order to perform the analysis, these datasets are considered:

- Ratio of House Prices to Earnings (full-time workers by place of work) of London area published by UK Office of National Statistics is used. This dataset shows the average house price/earnings ratio, which is an important indicator of housing affordability. Ratios are calculated by dividing house price by the median earnings of a borough. The Annual Survey of Hours and Earnings (ASHE) is based on a 1 per cent sample of employee jobs. Information on earnings and hours is obtained in confidence from employers. It does not cover the self-employed nor does it cover employees not paid during the reference period. The statistics used are workplace based full-time individual earnings. For this work, I use the data related to 2016 ([here](#)).
- In order to calculate the latitude and longitude of different borough, I use geopy.
- I use Forsquare API to get the most common venues of given Borough of London ([here](#)).
- I use the Search Nearby service from Google Maps to employ the center coordinates of the each Borough ([here](#)).