

An Analysis on Bristol City for incoming international students from India

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2. Data section

There are quite a few datasets needed to be used in this project.

- First, Bristol is divided into wards. The geometric boundaries for these wards are found in the official government website: <https://opendata.bristol.gov.uk/explore/dataset/wards/export/>. This geojson file helps to get started.
- Second, the population data is found in the same website and under ethnicity: <https://opendata.bristol.gov.uk/explore/dataset/ethnicity/>. This helps with the first project objective. The Indian population for each ward is found with data from this source.
- Third, the wards are subdivided into Neighborhoods. The data for this is available at: https://en.wikipedia.org/wiki/Subdivisions_of_Bristol. The web scraping technique, Beautiful Soup, is required to get the necessary data. The location data is compiled using Nominatim.
- Fourth, the **Foursquare API** becomes essential to identify the different venues in all the neighborhoods, thereby identifying the most suitable/familiar neighborhoods to Indian students and also identify the university with a better Indian-suited neighborhood. This accounts for the Project objectives 2,3 and 4.
- Finally, Beautiful Soup is used to scrape data for the top 10 tourist attractions in Bristol from this website: <https://www.planetware.com/tourist-attractions-/bristol-eng-av-bristol.htm>. The location data is compiled using Nominatim. This data is used to achieve the final objective of the project, which is to map the top 10 tourist spots in Bristol.