# Introduction

Bournemouth is a coastal resort town on the south coast of England. It is blessed with a beautiful beach along with a hometown for small industries and a renowned university.

In this exercise, I will

**Objective 1**: Divide different regions of Bournemouth based on the amenities e.g. Parks, Restaurants, and Hotels etc with the help of Foursquare API.

**Objective 2**: Overlay Housing prices in each of these regions. And analyse if the sectors that we formed in Objective 1 show some trend in the housing prices.

# Data

**Co ordinates of each region:**

<https://www.getthedata.com/open-postcode-geo>

Sample data:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Zip code | Status | Region category | Country | Lat | Long | Sub Zip code |
| BH1 1AH | live | small | England | 50.72273 | -1.87011 | 1AH |
| BH1 1AJ | live | small | England | 50.72993 | -1.87155 | 1AJ |

**House prices:**

<https://www.streetlist.co.uk/bh/bh1>

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Yearly House Price Averages for the BH1 Postcode District** | | | | | | | | |
| **Type of Property** | **2018 Average** | **2018 Sales** | **2017 Average** | **2017 Sales** | **2016 Average** | **2016 Sales** | **2015 Average** | **2015 Sales** |
| Detached | £473,737 | 23 | £425,025 | 18 | £307,357 | 19 | £324,347 | 21 |
| Semi-Detached | £286,829 | 35 | £265,219 | 32 | £266,414 | 27 | £267,147 | 33 |
| Terraced | £239,669 | 44 | £315,637 | 31 | £215,904 | 58 | £216,173 | 49 |
| Flats | £181,940 | 476 | £179,924 | 565 | £168,183 | 585 | £177,257 | 528 |