

# **The Battle of Hotels in Athens**

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2/2/21

Applied Data Science Capstone Week 4

Athens, the capital of Greece, is a major touristic attraction and millions of tourists visit the city every year. For instance, in 2019 the number of tourists reached 5.5 Million, as many as the Athenian residents. Most of the visitors stay in the historic centre because there are many monuments (like Acropolis-Parthenon), museums, restaurants, bars nearby and generally it offers a vibrant urban experience. However, the centre has the highest population density in Europe, after Paris. Thus, a guide for those that want to stay off or on the beaten path will be presented.

Firstly, the municipalities of Greece will be presented. The boundaries are in JSON format and were found in the official Greek database [1]. Secondly, the density of population in the Athenian Centre and five more Neighbourhoods will be depicted, using data from Wikipedia [2].

Finally, from the foursquare API, 100 (approximately) hotels and venues (of general categories) will be placed on the Map. According to the range that each hotel has from all venues, 3 clusters will be trained. Each cluster will include the hotels that have “a lot”, “a few”, “not many” attractions around them.

[1] <https://geodata.gov.gr/dataset/oria-demon-kallikrates>

[2] <https://bit.ly/36xWiXn>