

The Battle of Neighborhoods - Singapore

Singapore

- Singapore is a multicultural and vibrant city state that is suitable for work, live and play.
- Yet, land constraint is a problem.
- Understanding the amenities offered in each district in Singapore is important for people looking to live in Singapore.

Data acquisition and cleaning

- **Data sources**

- Location details are scraped from:
https://en.wikipedia.org/wiki/Postal_codes_in_Singapore
- An excel file with approximate coordinates representing each district was generated.
- Additional information regarding the common amenities near those general locations may be access through FourSquare API.

- **Data cleaning**

- Duplicates and zeros data were removed.

Features and modeling

- Features
 - Common venues in district, accessed from Foursquare API.
- Modeling
 - K-means clustering algorithm
 - Suitable to train the unlabelled data.

Cluster examination

- Most districts fall under cluster 0 which has food places as their most common venues.
- Cluster 1 has zoo as one of its most common venues.
- Cluster 2 has food places and zoo as its common venues.
- Cluster 3 has zoo and farm as its most common venues.
- Cluster 4 is near to the airport.

Conclusions

- In all, Singapore appears to be truly a food haven, based on this arbitrary analysis.
- Most districts have food places as common amenities, making cluster 0 an obvious choice for many.
- Those who enjoy wildlife may prefer to stay in cluster 1 and 3.
- Those who travel via flight often may prefer cluster 4.