



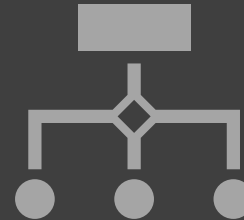
Developing Commercial Building in Canberra, Australia

Applied Data Science Capstone by
IBM/Coursera

Introduction



**Capital city of Australia – Canberra,
Analyzing to build offices for start-ups in
right place**



Explore, segment, and cluster to find :

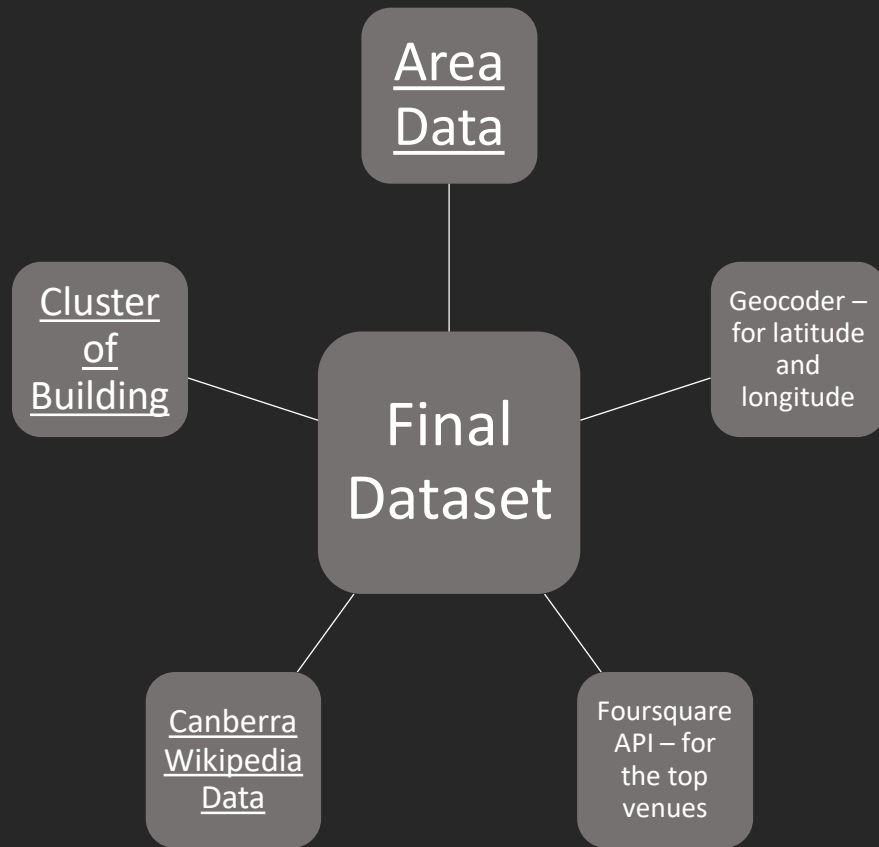
The similarities of buildings location in Canberra
The right place to build and invest for buildings.



Canberra

- Mostly Centrally Populated
- Capital City of Australia
- Spread over 814.2 km²
- Nearest Coast 150 km

Data



Tools Used:

- Folium
- Panda
- Numpy
- Foursquare API
- Scikit Learn

Methodology

Business Problem

Developing a building
In Canberra, Australia at
Better place to invest

Data Collection

Wikipedia
Data
Geocoder
Foursquare API

Data Cleaning

Kept only the required
metrics
Transformed the data
into right data type in
Python

Exploratory Data Analysis

Using Folium explore the
data
Plotting map of cluster
Visualize the data on the
map
Clustering and
Segmenting

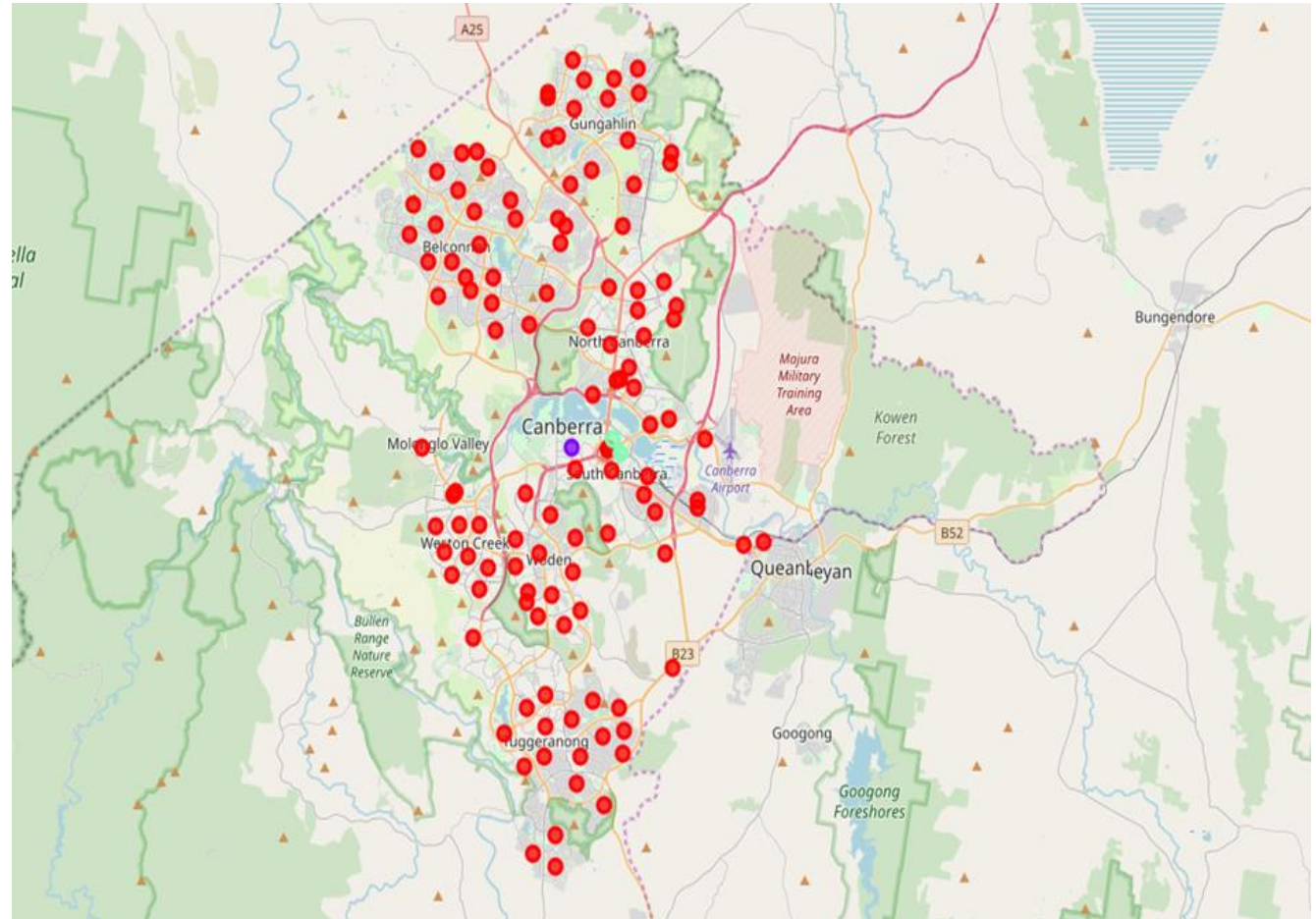
Conclusion

Discussion
Insights
Report

Neighborhood in Canberra

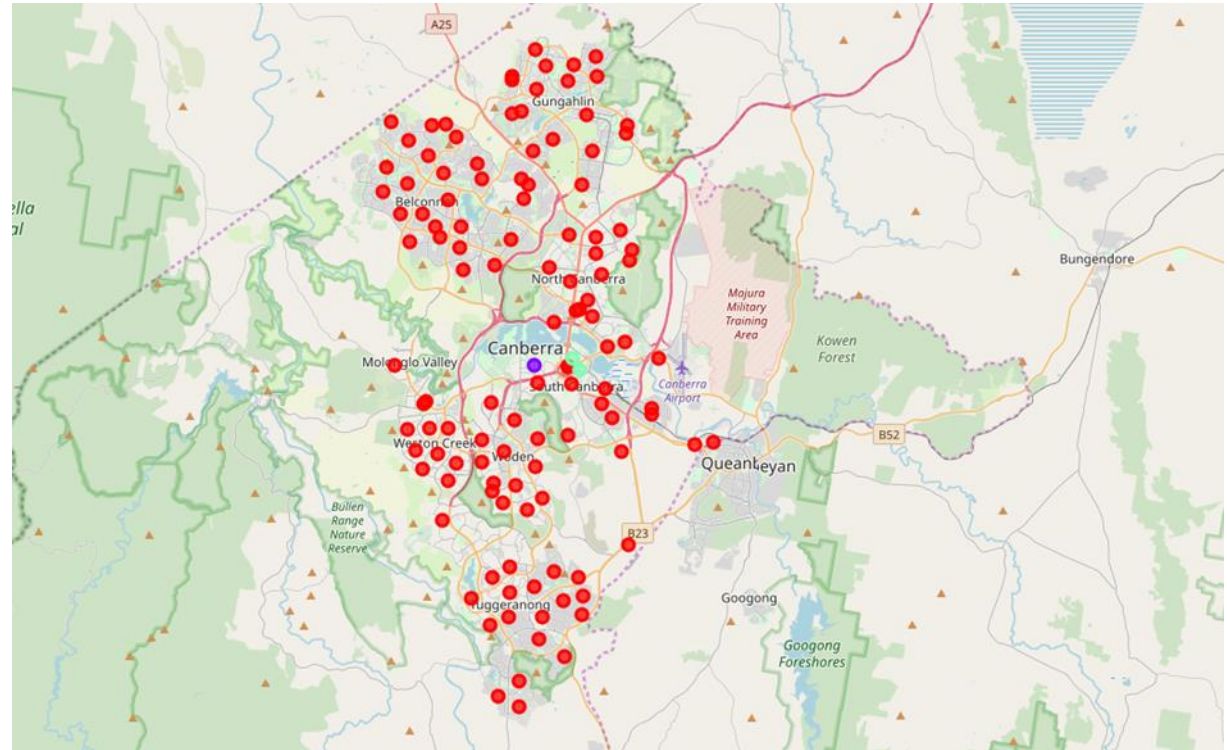
Total 124 Neighborhood in
Canberra

- 121 in Cluster 0
- 1 in Cluster 1
- 2 in Cluster 2



Clustering of Buildings

- Both clusters are really good for commercial as well as office space.
- Top most common venues in city
- Transport Hub(Airport)
- Resort



Insights



Both cluster 0 and 1 are really good for commercial purposes.



Good Food – The most common venue in both is Cluster 0, in general there are a lot of buildings



Concentration is high in Cluster 0



Canberra – Capital of Australia

Conclusion



Successfully used the available resources for the comparison.



Cluster 2 is good for investment.



Since there is limitation on Foursquare API, to get more better result.

Future Scope

Need to look at various other points such as weather, employment rate, income, etc. – to come to a definite point.

If the restriction on the Foursquare API radius restriction gets removed, then this analysis can be performed again to get more clearer picture.

Thank You!
