



The Battle of Neighborhoods

Joseph Salazar

Identifying Commonalities in LA neighborhood

- Identify an area with a diverse population that shows promise to hold multicultural events.
- Finding similarities in venues around the LA area to identify the appropriate place and culture for the coffee shop.
- A K-nearest neighbor algorithm will be used to determined similarities in neighborhoods and determine the best place for a local coffee shop.

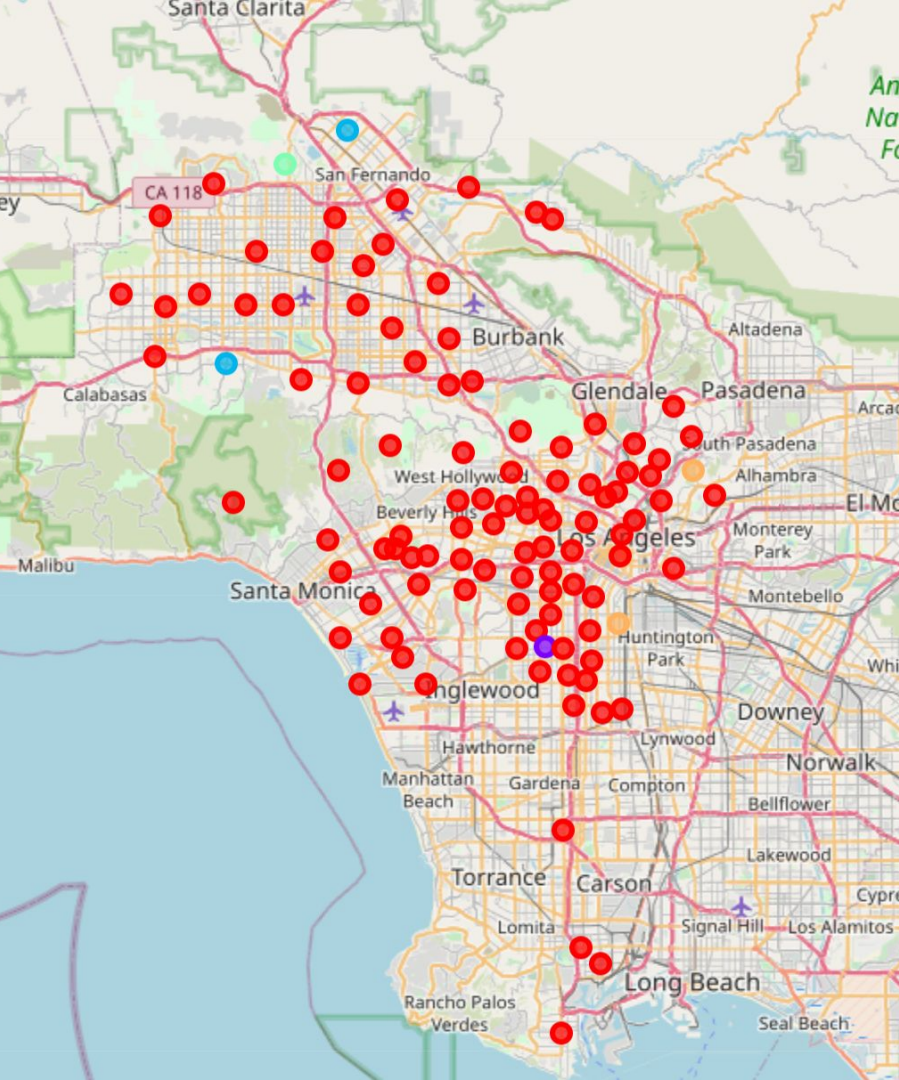
Data acquisition and cleaning



Data was taken from
four-square API and wikipedia.

The data will be transformed to
show the frequency of each
shop type for 110 LA
neighborhoods.

Along with the neighborhood
data the city demographics,
average income, schools,
average age and percent house
ownership will help identify
more details about the areas.



First neighborhood grouping

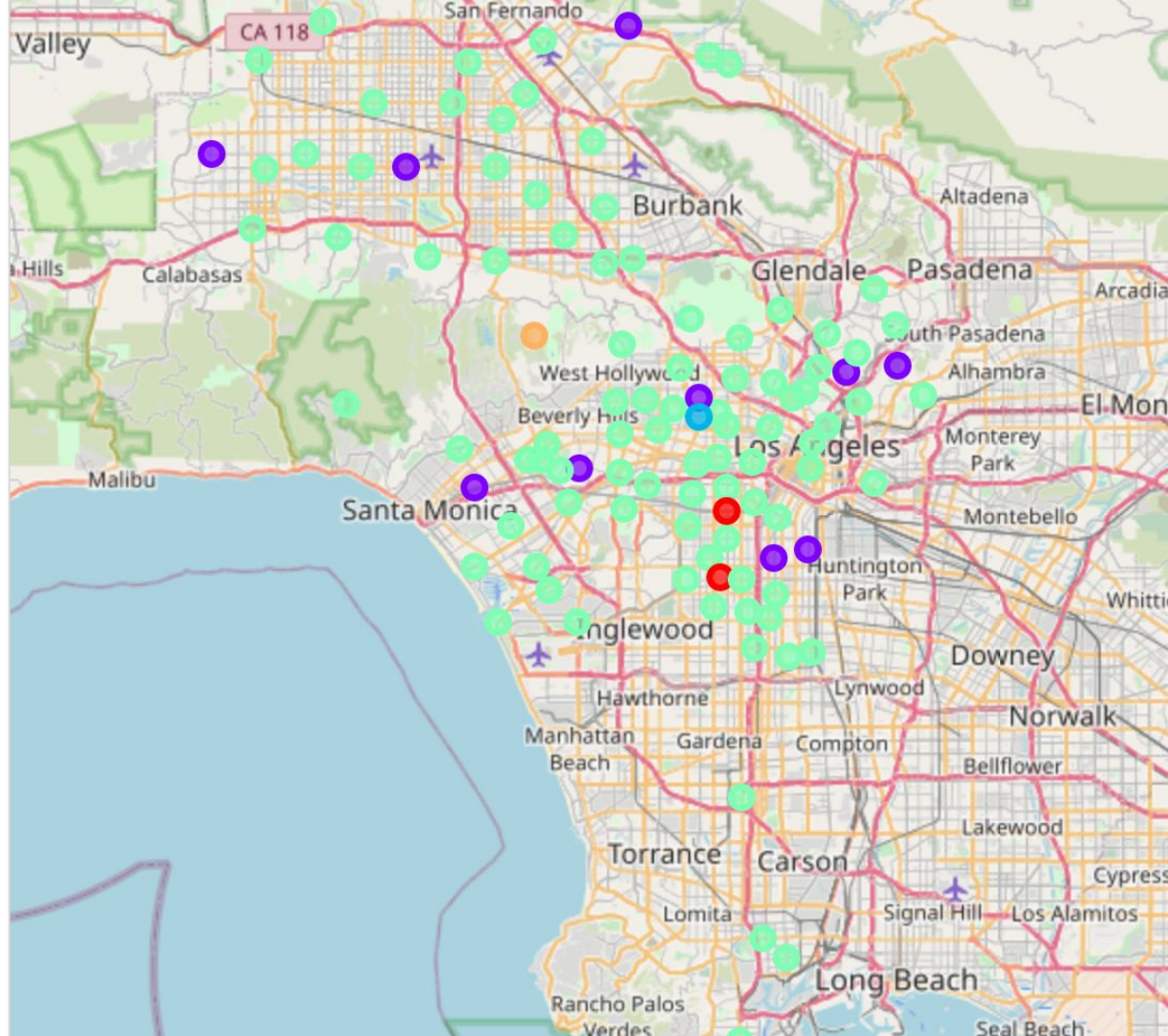
Most of the LA neighborhoods what grouped together.

There are several unique neighborhoods in LA

New k-mean clustering

Deleted Bal-Air and Granada_Hills to remove the unique character to see if the clustering algorithms

Shows slightly more diversity in the the LA neighborhood but overall most are group together



Conclusions

- Most of LA neighborhoods show similarities in types of shops
- Next steps would be to run a K-nearest neighbor algorithm for demographic, housing, and income data.