# Segmentation of Hyderabad Localities

#### Introduction

- Hyderabad is the capital city of Telangana occupying 650 square kilometers (250 sq mi).
- ▶ It consists of over 1000 neighborhoods with over 9.7 million population making in Fourth most populous city in India.

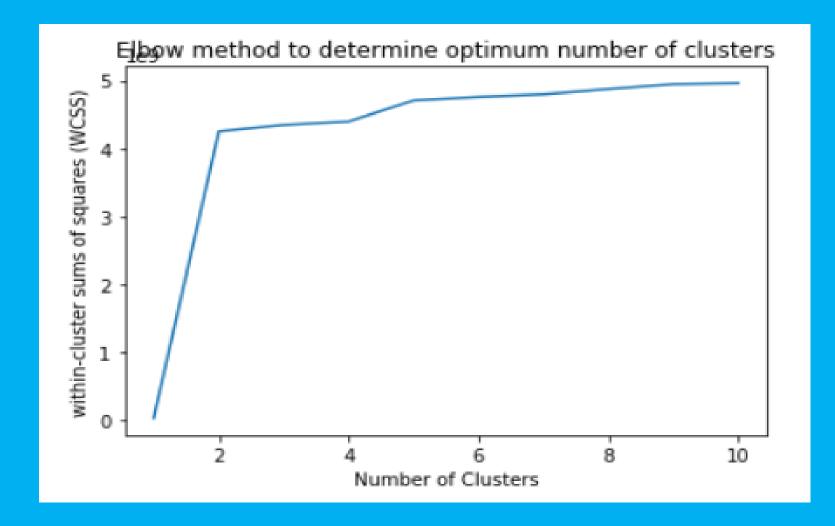
#### **Problem Statement**

- Under a example of a person looking to buy a new house, he often wonders which area he has to choose.
- To solve this problem, we use K means algorithm to determine best areas to buy new house.

## Data acquisition and cleaning

- Neighborhood names, plot pricing from manamm.com
- Location Coordinates using geocoder
- Near by places using Four Square API
- Entire dataset has been processed to reduce redundancy.

### Elbow method



As the change is maximum at k=2, we choose no of clusters as two.

### Result using Folium



- Best areas to buy/rest houses is marked as red.
- Not good areas are marked as blue.

### Future Reference and Conclusion

Data of land survey such as drought/flood prone areas, soil minerals can help to have more insight about neighborhoods.