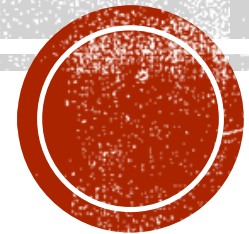# CAPESTONE PROJECT

INTRODUCTION:

- If a Businessman has a successful restaurant at a place in a city, He would tend to open his next restaurant at place similar to the successful restaurant's place in another city.

- The goal is to find which neighborhood of Central Bangalore is like Madhapur , Hyderbad.

METHODOLOGY

- Collect data of nearby places of Madhapur

- Collect data of nearby places of each neighborhood of Central Bangalore

- Then Perform K-Means Clustering and find out which neighbothood is clustered with Madhapur.

RESULT

K_Means Clustering

```
In [116]: from sklearn.cluster import KMeans
          kmeans = KMeans(n_clusters=4).fit(train_x)
```

```
In [117]: labels = kmeans.labels_
          print(labels)
```

```
[1 2 2 1 1 0 0 1 3 3]
```

```
In [118]: for x,y in zip(le.classes_,labels):
              print(x," : ",y)
```

```
Cantonment area  :  1
Domlur  :  2
Indiranagar  :  2
Malleswaram  :  1
Sadashivanagar  :  1
Seshadripuram  :  0
Shivajinagar  :  0
Ulsoor  :  1
Vasanth Nagar  :  3
madhapur  :  3
```

Vasanth Nagar,Central Banglore is more like Madhapur,Hyderabd