Computer vision Lab2

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How to run the code?

To run the code

How did you choose the optimum value of the number of clusters?

First, I used the elbow method to choose the optimal value of the number of clusters.The elbow approach is a well-liked technique for figuring out the best K number to utilise when running the K-Means Clustering Algorithm. Using k values ranging from 10 to 1000 clusters, calculate the k-means clustering algorithm. For each k, calculate the overall within-cluster sum of squares. (wss).

Usually, the location of the bend (knee) in the plot determines the ideal number of clusters.

FOllowing is my accuracy with different values of K,

I plotted graph of k wrt (Error)^2

For the purpose of This test I run code for two numbers of iteration as large values take a lot of computational time.

So From graph bend is around 200-225

After further Testing I choose k to be 225 to compute more accurate Result.



