DATA SCIENCE ANALYSIS

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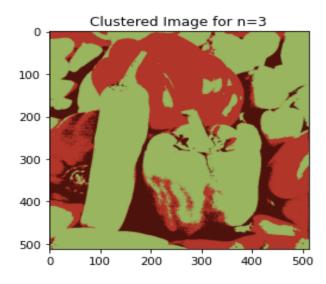
K - Means Clustering

- ➤ Here, First we take an original image and cluster that image based on color using the K-Means clustering algorithm.
- ➤ Below shown are the clustered images for clusters 3,5,8 using this algorithm.

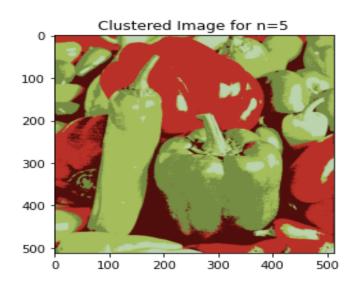
Original Image:



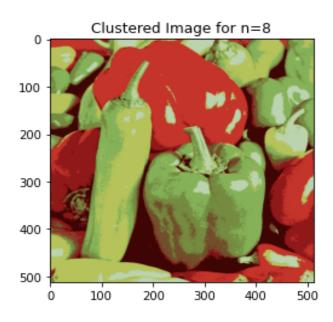
\Box For k = 3 clusters:



\Box For k = 5 clusters:



\Box For k = 8 clusters:



We can choose the optimal K value to get a clustered image as close to the original image as possible. Here k = 8 can be considered as the optimal number of clusters.