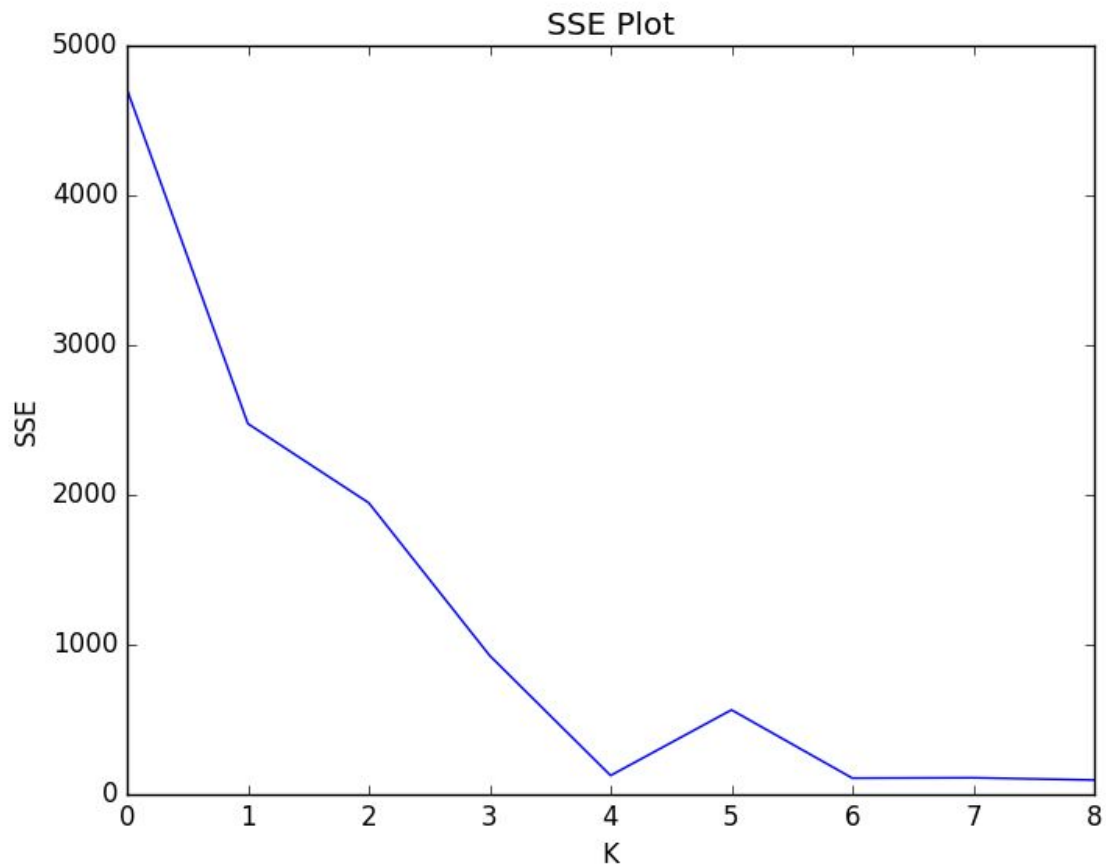


- 1) I used the euclidean distance
- 2) I used the center of mass prototype for a cluster
- 3) The knee in the graph below would be at a k value of 4 (5 cluster).



- 4) I selected a k value of 5, yes it was the represented k value on the SSE graph.
- 5)

Size of each Cluster:

[67, 68, 69, 74, 76]

Centroids for each Cluster:

```
[[ 0.02838143  8.26448991  1.55473684 ]  
 [-0.2367913  3.68678407  4.91788235 ]  
 [-4.24013801  5.53056323  2.48649123 ]  
 [ 0.38877916  7.83406795  1.58243243 ]  
 [-3.67547867  9.29709423  3.97674699 ]]
```

6)

