Exercise 1:

Model 1 Contingency Table:

```
            actual
 predicted  young  adult  old
    young    317    119    25
    adult     87    311   152
    old       35    115    92
```

57% accuracy

Model 2:

```
            actual
 predicted  young  adult  old
    young    330    109    17
    adult    102    347   126
    old        7     89   126
```
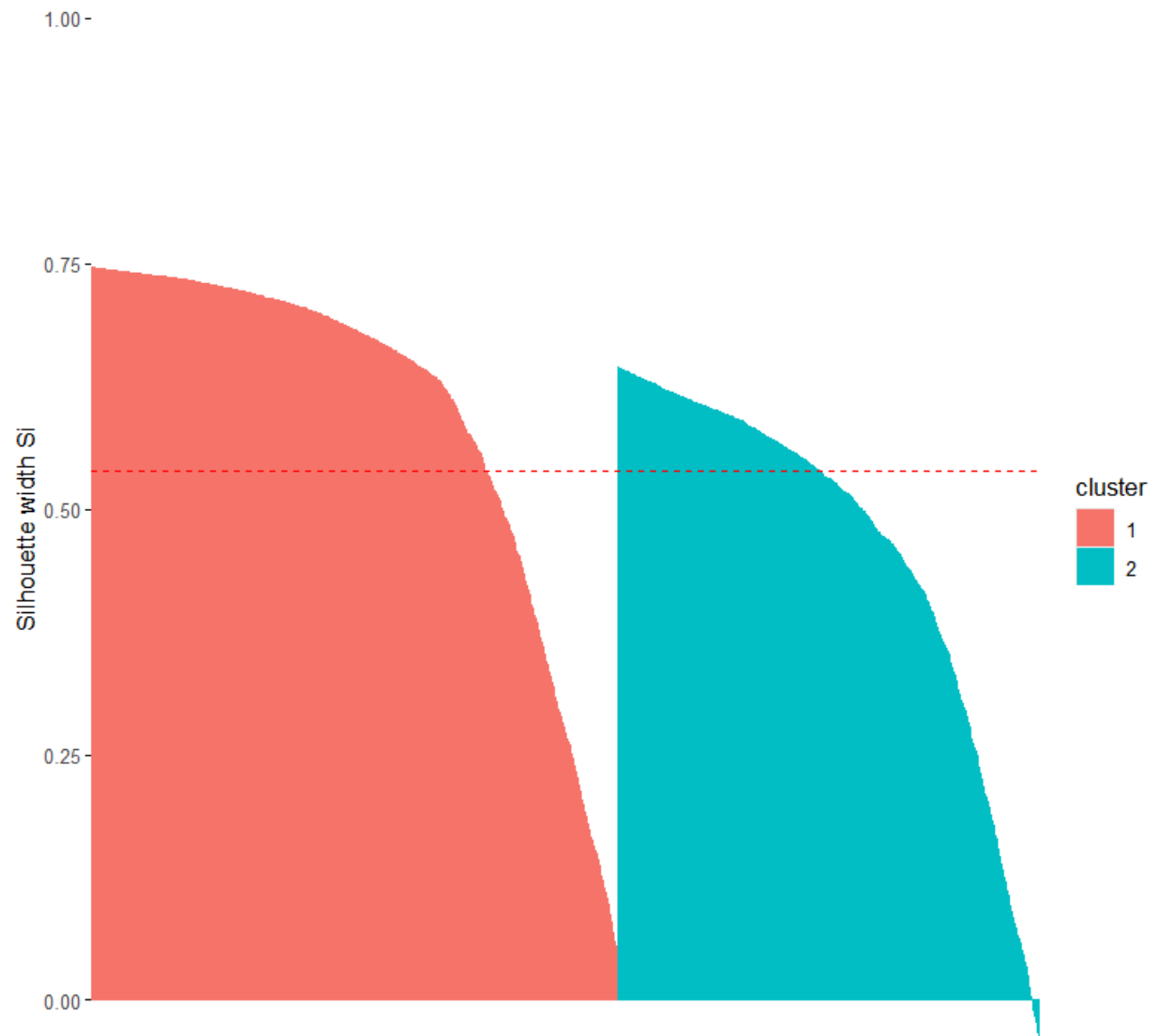
64% accuracy

K = 21
67.5%

Exercise 2:

K-means:

Clusters silhouette plot
Average silhouette width: 0.54

Pam:

Clusters silhouette plot
Average silhouette width: 0.54