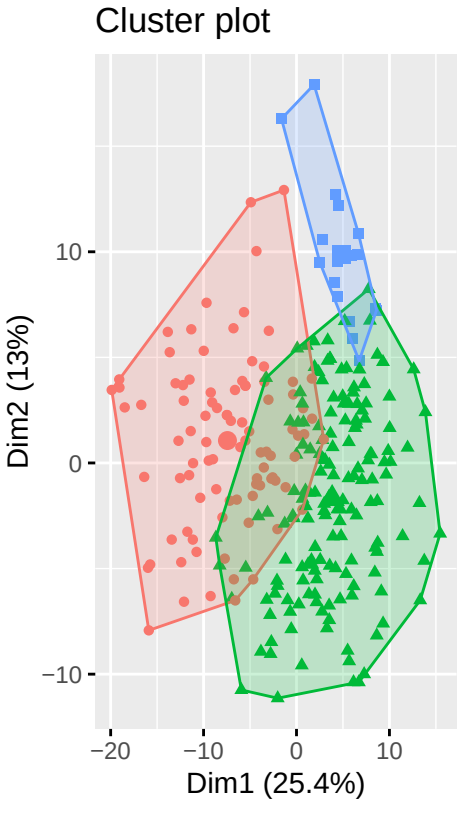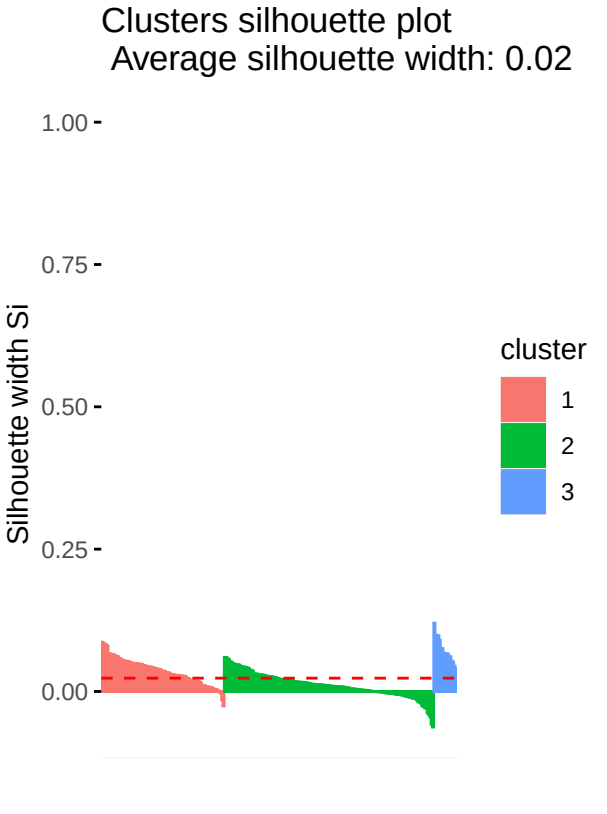spearman with k = 3