Case Study 2 - K-means

Problem Statement:

Consider yourself to be Sam who is a data scientist. He has been approached by a retail car showroom to help them segregate the cars into different clusters

Tasks to be performed:

1. Building the k-means clustering algorithm:
    a. Start off by extracting the 'mpg', 'disp' & 'hp' columns from the 'mtcars' data.frame. Store the result in 'car_features'
    b. Build the kmeans algorithm on top of 'car_features'. Here, the number of clusters should be 3
    c. Bind the clustering vector to 'car_features'.
    d. Extract observations belonging to individual clusters

2. On the same 'car_features'dataset build a k-means algorithm, where the number of clusters is 5
    a. Bind the clustering vector to 'car_features'
    b. Extract observations belonging to individual clusters