ds2_hw3

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```
library(caret)
## Loading required package: ggplot2
## Loading required package: lattice
library(knitr)
library(glmnet)
## Loading required package: Matrix
## Loaded glmnet 4.1-4
library(mlbench)
library(splines)
library(mgcv)
## Loading required package: nlme
## This is mgcv 1.8-40. For overview type 'help("mgcv-package")'.
library(pROC)
## Type 'citation("pROC")' for a citation.
## Attaching package: 'pROC'
## The following objects are masked from 'package:stats':
       cov, smooth, var
##
library(earth)
## Loading required package: Formula
## Loading required package: plotmo
```

```
## Loading required package: plotrix
## Loading required package: TeachingDemos
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.2 --
## v tibble 3.1.8 v dplyr 1.0.10
## v tidyr 1.3.0 v stringr 1.5.0
## v readr 2.1.2 v forcats 0.5.2
## v purrr 1.0.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::collapse() masks nlme::collapse()
## x tidyr::expand() masks Matrix::expand()
## x dplyr::filter() masks stats::filter()
## x tidyr::unpack() masks Matrix::unpack()
library(ggplot2)
library(pdp)
## Attaching package: 'pdp'
## The following object is masked from 'package:purrr':
##
##
      partial
library(vip)
##
## Attaching package: 'vip'
## The following object is masked from 'package:utils':
##
      vi
library(AppliedPredictiveModeling)
auto=read_csv("./auto.csv") %>%
 janitor::clean_names() %>%
 na.omit() %>%
 mutate(mpg_cat = as.factor(mpg_cat),
       year = as.factor(year),
        origin = as.factor(origin),
        mpg_cat = fct_relevel(mpg_cat, c("low", "high")))
```

```
## Rows: 392 Columns: 8
## -- Column specification --------
## Delimiter: ","
## chr (1): mpg_cat
## dbl (7): cylinders, displacement, horsepower, weight, acceleration, year, or...
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
set.seed(2023)
train_index=createDataPartition(y=auto$mpg_cat, p=0.7, list = FALSE)
train=auto[train_index,]
test=auto[-train_index,]
#training data
x1=model.matrix(mpg_cat~.,train)[,-1]
y1=train$mpg_cat
#testing data
x2=model.matrix(mpg_cat~.,test)[,-1]
y2=auto$mpg_cat[-train_index]
#1.
glm_fit=glm(mpg_cat ~ .,
             data = auto,
             subset = train_index,
             family = binomial(link = "logit"))
summary(glm_fit)
##
## Call:
## glm(formula = mpg_cat ~ ., family = binomial(link = "logit"),
      data = auto, subset = train_index)
## Deviance Residuals:
             1Q Median
      Min
                              3Q
                                     Max
## -2.0585 -0.0673 0.0028 0.1359
                                   3.4148
##
## Coefficients:
              Estimate Std. Error z value Pr(>|z|)
## (Intercept) 22.287033 6.589777 3.382 0.000719 ***
## cylinders
             -0.873335 0.724940 -1.205 0.228319
## displacement 0.007416 0.021833 0.340 0.734095
## horsepower
             -0.027269 0.039025 -0.699 0.484702
              ## weight
## year71
         0.318705 2.397011 0.133 0.894226
             -1.206294 1.362235 -0.886 0.375873
## year72
## year73
             ## year74
             1.975910 1.809505 1.092 0.274850
             1.167625 1.497279 0.780 0.435490
## year75
             2.213028 1.621090 1.365 0.172207
## year76
                        1.823066 0.762 0.446145
## year77
              1.388917
## year78
             1.544688 1.505540 1.026 0.304890
## year79
              4.607034 1.941760 2.373 0.017663 *
```

```
5.194261 2.073119 2.506 0.012227 *
## year80
## year81
              ## year82
              ## origin2
              1.201654 1.163232 1.033 0.301590
## origin3
              0.341372 1.139917 0.299 0.764581
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 382.62 on 275 degrees of freedom
## Residual deviance: 78.48 on 256 degrees of freedom
## AIC: 118.48
##
## Number of Fisher Scoring iterations: 8
pred_prob=predict(glm_fit, newdata = auto[-train_index,],
                       type = "response")
pred=rep("low", length(pred_prob))
pred[pred_prob>0.5]="high"
cm=confusionMatrix(data = as.factor(pred),
             reference = auto$mpg_cat[-train_index],
             positive = "high")
```

Warning in confusionMatrix.default(data = as.factor(pred), reference =
auto\$mpg_cat[-train_index], : Levels are not in the same order for reference and
data. Refactoring data to match.

kable(cm\$table,"simple")

	low	high
low	52	5
high	6	53

cm\$byClass["Balanced Accuracy"]

```
## Balanced Accuracy
## 0.9051724
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Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred