DS670 Capstone Project

Rhonald Reside

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```
#Set Working Directory
setwd('C:/Users/Rhon/Desktop/Capstone/Weather_Data')
# Get the data
weather = read.csv("combinedata1.csv", header=TRUE)
View(weather)
str(weather)
                          #Structure of an object
## 'data.frame':
                   12563 obs. of 11 variables:
## $ DATE.TIME
                   : Factor w/ 12563 levels " 2014-02-13T00:00:00",..: 1 2 3 4 5 6 7 8 9 10 ...
## $ Date
                    : Factor w/ 177 levels " 2014-02-13",..: 1 1 1 1 1 1 1 1 1 1 1 ...
## $ time
                    : Factor w/ 77 levels "0:00:00","0:20:00",...: 1 2 3 4 5 6 39 40 41 54 ...
## $ tmpm_celsius : int 4 4 4 4 4 4 3 3 3 3 ...
## $ tmpm_Fahrenheit: num 39.2 39.2 39.2 39.2 39.2 37.4 37.4 37.4 37.4 ...
## $ Dewptm
                    : int 000000111...
## $ hum
                    : int 66 75 75 65 75 75 73 87 87 84 ...
## $ Pressurem
                   : int 995 994 993 994 993 993 993 992 991 992 ...
                    : int 160 160 160 160 170 170 160 160 160 150 ...
## $ wdir
                    : num 18.5 20.4 22.2 24.1 22.2 22.2 22.2 18.5 20.4 20.4 ...
## $ wspdm
                    : num 29 10 10 30 10 10 7 10 10 8 ...
## $ vism
class(weather)
                          #Vlass or type of an object
## [1] "data.frame"
length(weather)
                          #Find how many vectors in the data set
## [1] 11
head(names(weather))
                          #Names of the columns
## [1] "DATE.TIME"
                        "Date"
                                                            "tmpm_celsius"
                                          "time"
## [5] "tmpm_Fahrenheit" "Dewptm"
dim(weather)
                          #Find the dimension of our data
## [1] 12563
##Find the Warmest day
Warmest.day <- max(weather$tmpm_Fahrenheit)</pre>
Warmest.day
```

```
## [1] 80.6
##Find the coldest day
coldest.day <- min(weather$tmpm_Fahrenheit)</pre>
coldest.day
## [1] 26.6
number <- dim((weather$tmpm Fahrenheit) )</pre>
# Add classification to Y
library(ISLR)
attach(weather)
result1=(weather$tmpm_Fahrenheit)
Yresults=ifelse(result1>=65,"warm","cold")
# Add to the table the result of Yresults, if cold or warm
data1=data.frame(weather, Yresults)
View(data1)
# Split data into testing and training
set.seed(1)
train=sample(1: nrow(data1), nrow(data1)/2)
test=-train
training_data=data1[train,]
testing_data=data1[test,]
testing_Yresults=Yresults[test]
# Full Logistic Model using Temperature, Dew Point, Humidity, Pressure, and Wind Direction
logistic_model=glm(Yresults~tmpm_Fahrenheit+Dewptm+hum+Pressurem+wdir, data=data1, family=binomial)
logistic_model
## Call: glm(formula = Yresults ~ tmpm_Fahrenheit + Dewptm + hum + Pressurem +
##
       wdir, family = binomial, data = data1)
##
## Coefficients:
##
       (Intercept) tmpm_Fahrenheit
                                               Dewptm
                                                                   hum
##
        -1.426e+03
                          2.194e+01
                                          -2.256e-02
                                                             5.211e-03
##
        Pressurem
                               wdir
##
        -6.332e-03
                        -2.184e-04
## Degrees of Freedom: 12457 Total (i.e. Null); 12452 Residual
     (105 observations deleted due to missingness)
## Null Deviance:
                        8266
## Residual Deviance: 5.084e-06
                                    AIC: 12
```

```
summary(logistic_model)
```

```
##
## Call:
## glm(formula = Yresults ~ tmpm_Fahrenheit + Dewptm + hum + Pressurem +
       wdir, family = binomial, data = data1)
##
##
## Deviance Residuals:
         Min
                       1Q
                              Median
                                               3Q
                                                          Max
## -7.538e-05 -2.100e-08 -2.100e-08 -2.100e-08
                                                    8.103e-05
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
                  -1.426e+03 7.072e+04 -0.020
## (Intercept)
                                                   0.984
## tmpm_Fahrenheit 2.194e+01 4.553e+02 0.048
                                                   0.962
## Dewptm
                  -2.256e-02 3.201e+02 0.000
                                                   1.000
                   5.211e-03 7.466e+01 0.000
                                                    1.000
## hum
## Pressurem
                  -6.332e-03 6.169e+01
                                           0.000
                                                    1.000
## wdir
                  -2.184e-04 4.268e+00
                                          0.000
                                                    1.000
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 8.2663e+03 on 12457 degrees of freedom
## Residual deviance: 5.0839e-06 on 12452 degrees of freedom
     (105 observations deleted due to missingness)
## AIC: 12
##
## Number of Fisher Scoring iterations: 25
# Predict Direction on testing data
logistic_prob=predict(logistic_model, testing_data, type="response")
summary(logistic_model)
##
## Call:
## glm(formula = Yresults ~ tmpm_Fahrenheit + Dewptm + hum + Pressurem +
       wdir, family = binomial, data = data1)
##
##
## Deviance Residuals:
         Min
                       1Q
                              Median
                                              30
                                                         Max
## -7.538e-05 -2.100e-08 -2.100e-08 -2.100e-08
                                                    8.103e-05
##
## Coefficients:
##
                     Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                  -1.426e+03 7.072e+04 -0.020
                                                    0.984
## tmpm_Fahrenheit 2.194e+01 4.553e+02
                                           0.048
                                                    0.962
## Dewptm
                  -2.256e-02 3.201e+02
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                                                   1.000
## hum
                   5.211e-03 7.466e+01
                                           0.000
                                                    1.000
## Pressurem
                  -6.332e-03 6.169e+01
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## wdir
                  -2.184e-04 4.268e+00
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                                                    1.000
##
## (Dispersion parameter for binomial family taken to be 1)
```

```
##
##
      Null deviance: 8.2663e+03 on 12457 degrees of freedom
## Residual deviance: 5.0839e-06 on 12452 degrees of freedom
     (105 observations deleted due to missingness)
## AIC: 12
##
## Number of Fisher Scoring iterations: 25
test_prob=predict(logistic_model, type="response")
test_prob[1:10]
##
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## 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
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## 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
# Create the Direction on testing data based on probability
logistic_pred=ifelse(logistic_prob>65, "warm", "cold")
logistic_pred
```

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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold"
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## "cold" "cold"
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## "cold" "cold"
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## "cold" "cold"
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## "cold" "cold"
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## "cold" "cold"
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## "cold" "cold"
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## "cold" "cold"
     10278 10279 10280 10283 10284 10285 10286 10287 10289 10291
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     10294 10295 10297 10298 10299 10300 10305 10307 10310 10311
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     10312 10314 10315 10318 10320 10321 10322 10323 10325 10330
## "cold" "cold"
     10334 10336 10337 10338 10339 10340 10348 10349 10350 10354
    "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     10359 10361 10362 10368 10369 10370 10371 10373 10374 10376
                    NA "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
## "cold"
     10377 10380 10383 10384 10385 10387 10390 10391 10393 10396
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     10397 10405 10407 10408 10412 10414 10415 10420 10421 10422
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     10423 10424 10425 10426 10427 10428 10429 10431 10434 10435
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     10436 10437 10438 10440 10441 10442 10445 10452 10453 10454
## "cold" "cold"
     10455 10456 10457 10458 10459 10460 10465 10467 10468 10469
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     10473 10474 10476 10477 10479 10483 10485 10486 10488 10489
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     10491 10492 10495 10497 10498 10500 10501 10502 10505 10506
    "cold" "c
     10508 10512 10513 10516 10517 10519 10521 10523 10524 10527
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
    10529 10531 10541 10542 10543 10544 10546 10548 10549 10553
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
## 10555 10556 10557 10558 10560 10561 10564 10565 10568 10569
```

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NA "cold" "cold" "cold" "cold" "cold"
                                                                                                                                            NA "cold" "cold"
## "cold"
         10570 10571 10573 10576 10580 10582 10583 10585 10591 10592
## "cold" "cold" "cold" "cold"
                                                                                        NA "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         10617 10619 10621 10622 10623 10624 10625 10627 10629 10630
        "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
          10631 10633 10634 10635 10636 10640 10643 10646 10647 10651
                 NA "cold"
##
                                                     NA "cold" "cold"
                                                                                                          NA
                                                                                                                            NA
                                                                                                                                             NA "cold" "cold"
         10652 10653 10655 10657 10660 10662 10664 10667 10670 10674
##
                 NA "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         10676 10678 10679 10680 10682 10683 10685 10686 10688 10690
        "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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        "cold" "cold" "cold" "cold" "cold" "cold" "cold"
                                                                                                                                                               NA "cold"
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      "cold" "cold" "cold" "cold"
                                                                                        NA "cold"
                                                                                                                           NA "cold" "cold" "cold"
         10734 10736 10737 10740 10741 10742 10743 10744 10746 10747
       "cold" "c
         10748 10749 10750 10751 10752 10753 10757 10759 10760 10763
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         10767 10768 10772 10778 10779 10780 10781 10782 10783 10784
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         10786 10787 10788 10790 10791 10792 10793 10795 10797 10801
      "cold" "c
         10802 10803 10804 10809 10827 10829 10830 10833 10835 10838
       "cold" "c
         10839 10840 10844 10845 10846 10847 10851 10852 10853 10854
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold"
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       "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold"
         10936 10938 10940 10941 10942 10943 10944 10946 10947 10948
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         10949 10951 10952 10953 10957 10958 10959 10960 10962 10965
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         10966 10967 10968 10974 10975 10977 10978 10981 10983 10985
##
       "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         10986 10988 10991 10994 10995 10996 10997 10998 10999 11000
## "cold" "cold"
         11001 11002 11004 11006 11007 11009 11011 11012 11013 11015
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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       "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         11042 11044 11045 11048 11050 11053 11054 11056 11062 11063
        "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
         11064 11067 11070 11073 11074 11076 11077 11081 11082 11084
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
        11085 11086 11091 11092 11094 11096 11098 11103 11106 11108
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
## 11109 11110 11113 11116 11122 11123 11126 11129 11131 11133
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## "cold" "cold"
  11136 11137 11139 11146 11148 11150 11151 11153 11154 11155
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   11157 11162 11163 11164 11166 11168 11169 11172 11175 11177
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  11180 11186 11187 11189 11193 11195 11196 11198 11199 11203
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
## 11204 11207 11208 11209 11212 11214 11215 11218 11220 11222
## "cold" "cold"
   11225 11228 11231 11233 11234 11235 11237 11238 11239 11240
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   11241 11242 11244 11245 11247 11249 11250 11251 11254 11256
## "cold" "cold"
  11257 11259 11260 11264 11267 11268 11269 11272 11273 11275
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   11276 11278 11281 11283 11285 11286 11287 11288 11289 11290
## "cold" "cold"
   11294 11297 11299 11302 11303 11305 11306 11307 11308 11309
## "cold" "cold"
   11310 11311 11313 11314 11315 11321 11322 11323 11324 11326
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  11328 11329 11330 11332 11333 11334 11340 11341 11345 11348
## "cold" "cold"
   11350 11351 11352 11354 11355 11356 11357 11361 11362 11363
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   11364 11365 11366 11367 11368 11372 11373 11374 11378 11380
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   11384 11386 11387 11388 11390 11394 11395 11396 11399 11402
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  11405 11407 11412 11415 11417 11418 11419 11423 11424 11426
## "cold" "cold"
   11430 11433 11434 11435 11436 11437 11440 11441 11444 11446
## "cold" "cold"
   11447 11450 11451 11453 11454 11455 11456 11459 11460 11463
## "cold" "cold"
   11464 11466 11469 11472 11479 11480 11485 11488 11489 11491
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  11494 11495 11496 11500 11506 11507 11509 11511 11512 11513
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   11536 11539 11543 11544 11545 11546 11548 11552 11553 11557
## "cold" "cold"
  11558 11559 11560 11562 11564 11565 11567 11573 11574 11576
## "cold" "cold"
  11577 11578 11580 11582 11584 11585 11586 11587 11588 11590
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   11592 11598 11603 11604 11605 11606 11610 11615 11617 11618
## "cold" "cold"
   11620 11621 11623 11624 11625 11626 11627 11628 11631 11632
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  11634 11637 11638 11640 11641 11643 11644 11646 11649 11652
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
## 11653 11658 11660 11661 11663 11666 11667 11669 11671 11673
```

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## "cold" "cold"
     11674 11675 11678 11680 11682 11685 11686 11687 11688 11692
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     11694 11695 11696 11697 11698 11703 11705 11710 11711 11713
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
    11716 11717 11718 11719 11722 11726 11727 11729 11731 11732
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
    11735 11736 11738 11741 11744 11746 11748 11750 11754 11755
## "cold" "cold"
     11756 11757 11759 11761 11766 11769 11770 11772 11773 11775
    "cold" "c
     11777 11780 11781 11782 11786 11787 11793 11794 11797 11799
## "cold" "cold"
    11802 11805 11806 11807 11809 11813 11815 11816 11818 11819
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     11820 11821 11827 11829 11830 11831 11834 11836 11837 11838
## "cold" "cold"
     11843 11846 11847 11848 11850 11852 11853 11855 11856 11857
                    NA "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
## "cold"
     11865 11869 11871 11872 11873 11875 11878 11879 11880 11882
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
    11883 11888 11889 11890 11891 11892 11893 11896 11897 11898
## "cold" "cold"
     11900 11902 11903 11904 11905 11906 11908 11911 11913 11915
## "cold" "cold"
     11917 11918 11922 11926 11931 11933 11934 11936 11940 11943
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     11945 11946 11947 11948 11951 11954 11955 11957 11958 11962
## "cold" "cold" "cold"
                                         NA "cold" "cold" "cold" "cold" "cold" "cold"
     11963 11964 11965 11971 11973 11977 11979 11982 11983 11985
## "cold" "cold"
     11988 11991 11992 11994 11996 11997 11999 12000 12002 12005
    "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     12006 12008 12013 12016 12018 12023 12025 12026 12027 12029
          NA "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     12030 12034 12035 12036 12037 12039 12040 12042 12043 12046
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     12048 12049 12050 12051 12052 12054 12055 12056 12057 12058
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     12059 12061 12065 12067 12070 12072 12074 12075 12076 12079
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
     12083 12086 12087 12088 12089 12090 12092 12099 12100 12102
## "cold" "cold"
    12104 12108 12109 12111 12112 12113 12114 12115 12118 12119
## "cold" "cold"
     12126 12130 12135 12136 12139 12140 12141 12145 12146 12150
## "cold" "cold"
     12152 12154 12155 12159 12160 12161 12162 12163 12167 12168
## "cold" "cold"
     12171 12175 12176 12177 12178 12180 12181 12182 12184 12186
## "cold" "cold"
    12189 12191 12194 12195 12196 12197 12198 12199 12203 12208
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
## 12210 12214 12215 12216 12217 12218 12224 12226 12228 12231
```

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## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  12232 12234 12235 12237 12238 12239 12242 12243 12245 12246
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   12252 12254 12255 12257 12258 12259 12260 12262 12263 12264
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  12265 12268 12269 12271 12272 12276 12277 12278 12279 12283
## "cold" "cold"
  12286 12289 12293 12294 12295 12300 12301 12303 12305 12306
## "cold" "cold"
   12307 12315 12316 12318 12321 12322 12326 12329 12330 12332
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   12333 12335 12336 12340 12343 12345 12349 12353 12355
## "cold" "cold"
  12358 12359 12360 12363 12364 12365 12367 12371 12373 12374
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   12375 12376 12379 12381 12384 12385 12387 12388 12391 12392
## "cold" "cold"
   12393 12395 12396 12399 12401 12404 12405 12407 12408 12410
## "cold" "cold"
   12411 12412 12414 12415 12416 12418 12420 12421 12422
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  12425 12426 12427 12428 12430 12431 12432 12434 12436 12437
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   12442 12443 12448 12452 12453 12457 12463 12467 12469
## "cold" "cold"
   12472 12474 12477 12478 12479 12480 12483 12484 12485 12487
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
   12489 12490 12491 12493 12495 12497 12498 12499 12500 12504
## "cold" "cold" "cold" "cold"
                                 NA "cold" "cold" "cold" "cold" "cold"
## 12505 12506 12507 12511 12516 12517 12518 12520 12522 12523
## "cold" "cold"
   12525 12526 12529 12530 12531 12535 12536 12537 12539 12541
## "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold" "cold"
  12542 12545 12548 12550 12551 12552 12553 12555 12556 12559
## "cold" "cold"
## 12560 12562
## "cold" "cold"
# Confusion Matrix
table(logistic_pred, testing_Yresults)
##
               testing_Yresults
## logistic_pred cold warm
           cold 5631 602
# Logistic Model - Error Rate
mean(na.omit(logistic_pred!=testing_Yresults))
## [1] 0.0965827
# Logistic Model - Correct Classification Rate
mean(na.omit(logistic_pred==testing_Yresults))
```

```
## [1] 0.9034173
## LDA: Linear Discriminant Analysis
# Fit the LDA model on the training data
library (MASS)
# LDA using the variables
lda_model=lda(Yresults~tmpm_Fahrenheit+Dewptm+hum+Pressurem+wdir, data=data1, family=binomial)
lda model
## Call:
## lda(Yresults ~ tmpm_Fahrenheit + Dewptm + hum + Pressurem + wdir,
      data = data1, family = binomial)
## Prior probabilities of groups:
       cold
                 warm
## 0.8969337 0.1030663
##
## Group means:
       tmpm_Fahrenheit
                          Dewptm
                                      hum Pressurem
                                                        wdir
          50.52628 5.798908 72.72490 1013.561 185.7732
## cold
              69.14953 11.330997 53.42757 1014.502 162.8972
## warm
## Coefficients of linear discriminants:
## tmpm_Fahrenheit 0.2546610145
## Dewptm
             -0.2768810736
                  0.0364356686
## hum
## Pressurem
                 -0.0078344065
## wdir
                  -0.0006781351
# Validate the LDA model on the testing data
lda_pred=predict(lda_model, testing_data)
names(lda_pred)
## [1] "class"
                   "posterior" "x"
lda_pred_Direction=lda_pred$class
head(lda_pred_Direction)
## [1] cold cold cold cold cold
## Levels: cold warm
# LDA - Confusion Matrix
table(lda_pred_Direction, testing_Yresults)
##
                    testing_Yresults
## lda_pred_Direction cold warm
##
               cold 5547 208
```

warm 84 394

##

```
# LDA - Misclassification Rate
mean(na.omit(lda_pred_Direction!=testing_Yresults))
## [1] 0.04684742
# LDA - Correct Classification Rate
mean(na.omit(lda_pred_Direction==testing_Yresults))
## [1] 0.9531526
## QDA: Quadratic Discriminant Analysis
# Fit the QDA model on the training data
# QDA using all variables
qda_model=qda(Yresults~tmpm_Fahrenheit+Dewptm+hum+Pressurem+wdir, data=data1, family=binomial)
qda_model
## Call:
## qda(Yresults ~ tmpm_Fahrenheit + Dewptm + hum + Pressurem + wdir,
      data = data1, family = binomial)
## Prior probabilities of groups:
       cold
                 warm
## 0.8969337 0.1030663
##
## Group means:
       tmpm_Fahrenheit
                          Dewptm
                                      hum Pressurem
                                                         wdir
             50.52628 5.798908 72.72490 1013.561 185.7732
## cold
## warm
              69.14953 11.330997 53.42757 1014.502 162.8972
# Validate the QDA model on the testing data
qda_pred=predict(qda_model, testing_data)
names(qda_pred)
## [1] "class"
                   "posterior"
qda_pred_results=qda_pred$class
head(qda_pred_results)
## [1] cold cold cold cold cold
## Levels: cold warm
# QDA - Confusion Matrix
table(qda_pred_results, testing_Yresults)
                  testing_Yresults
## qda_pred_results cold warm
             cold 5570 85
              warm 61 517
##
```

```
# QDA - Misclassification Rate
mean(na.omit(qda_pred_results!=testing_Yresults))

## [1] 0.02342371

# QDA - Correct Classification Rate
mean(na.omit(qda_pred_results==testing_Yresults))

## [1] 0.9765763

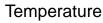
library(lattice)

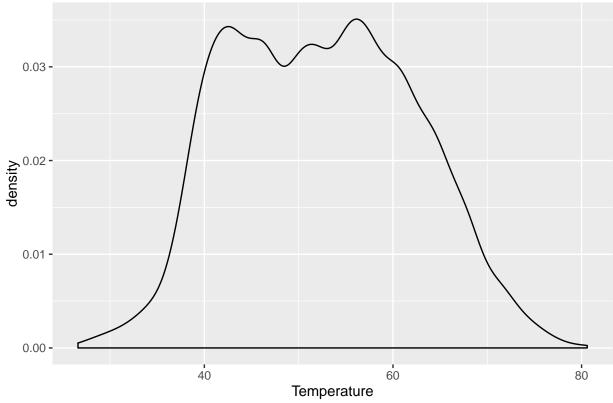
## Warning: package 'lattice' was built under R version 3.1.2

library(ggplot2)

## Warning: package 'ggplot2' was built under R version 3.1.3

ggplot(weather, aes(x=tmpm_Fahrenheit)) +
    geom_density() +
    xlab("Temperature") +
    ggtitle("Temperature")
```





Temperature During 2014

