Midterm Project

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2024-04-03

To make Y to one dimensional variable:

Categorize the output (Y) to 8 classes, a 8*3 matrix

Ideas:

[1] 0

- we can compare the group of people with each response outcome only
- try different combinations to find information or pattern
- how to differentiate different groups
- whether gender play some role for Y

```
df <- read.csv("heart_disease_health_indicators_BRFSS2015.csv")</pre>
df_dimensions <- dim(df)</pre>
df_dimensions
## [1] 253680
                   22
# get name of column and find the target variables
names <- colnames(df)</pre>
names
    [1] "HeartDiseaseorAttack" "HighBP"
##
                                                           "HighChol"
                                                           "Smoker"
   [4] "CholCheck"
                                  "BMI"
   [7] "Stroke"
                                  "Diabetes"
                                                           "PhysActivity"
                                  "Veggies"
## [10] "Fruits"
                                                           "HvyAlcoholConsump"
## [13] "AnyHealthcare"
                                  "NoDocbcCost"
                                                           "GenHlth"
## [16] "MentHlth"
                                  "PhysHlth"
                                                           "DiffWalk"
## [19] "Sex"
                                  "Age"
                                                           "Education"
## [22] "Income"
dia <- df["Diabetes"]</pre>
stro <- df["Stroke"]</pre>
heart <- df["HeartDiseaseorAttack"]</pre>
## [1] FALSE
```

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.