eda

Vrinda

2024-10-10

```
library('ggvis')
library('tidyverse')
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr
              1.1.4
                         v readr
                                     2.1.5
## v forcats
              1.0.0
                         v stringr
                                     1.5.1
## v ggplot2 3.5.1
                         v tibble
                                     3.2.1
## v lubridate 1.9.3
                         v tidyr
                                     1.3.1
## v purrr
               1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter()
                          masks stats::filter()
## x dplyr::lag()
                          masks stats::lag()
## x ggplot2::resolution() masks ggvis::resolution()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library('ggplot2')
library('stats')
library('dplyr')
library('corrplot')
## corrplot 0.94 loaded
# read the file
fast_food= read.csv("C:\\Users\\Vrinda\\Downloads\\FastFoodNutritionMenuV3.csv", header=T, na.strings='
# checking the data
head(fast_food)
##
                                                Item Calories Calories.from.Fat
        Company
## 1 McDonald's
                                          Hamburger
                                                          250
                                                                             80
## 2 McDonald's
                                                          300
                                       Cheeseburger
                                                                            110
## 3 McDonald's
                                Double Cheeseburger
                                                          440
                                                                            210
## 4 McDonald's
                                           McDouble
                                                          390
                                                                            170
## 5 McDonald's
                       Quarter Pounder® with Cheese
                                                          510
                                                                            230
## 6 McDonald's Double Quarter Pounder® with Cheese
                                                          740
     {\tt Total.Fat..g.\ Saturated.Fat..g.\ Trans.Fat..g.\ Cholesterol..mg.\ Sodium...mg.}
##
## 1
                 9
                                 3.5
                                               0.5
                                                                  25
## 2
                12
                                               0.5
                                   6
                                                                  40
                                                                              750
## 3
                23
                                  11
                                               1.5
                                                                  80
                                                                             1150
## 4
                19
                                   8
                                                                  65
                                                                              920
                                                 1
```

```
## 5
                26
                                  12
                                               1.5
                                                                 90
                                                                             1190
## 6
                42
                                               2.5
                                                                             1380
                                  19
                                                                155
    Carbs..g. Fiber..g. Sugars..g. Protein..g. Weight.Watchers.Pnts
                                  6
## 1
           31
                       2
                                             12
                                                                247.5
## 2
           33
                       2
                                  6
                                             15
                                                                  297
## 3
           34
                       2
                                  7
                                             25
                                                                  433
## 4
            33
                       2
                                  7
                                             22
                                                                  383
## 5
                       3
                                  9
            40
                                             29
                                                                  502
## 6
            40
                       3
                                  9
                                             48
                                                                 720
#for evaluating the structure of data
str(fast_food)
## 'data.frame':
                    1147 obs. of 14 variables:
                                 "McDonald's" "McDonald's" "McDonald's" "McDonald's" ...
## $ Company
                          : chr
## $ Item
                                 "Hamburger" "Cheeseburger" "Double Cheeseburger" "McDouble" ...
                          : chr
                                 "250" "300" "440" "390" ...
## $ Calories
                          : chr
                          : chr
                                 "80" "110" "210" "170" ...
## $ Calories.from.Fat
                                 "9" "12" "23" "19" ...
## $ Total.Fat..g.
                          : chr
## $ Saturated.Fat..g. : chr
                                 "3.5" "6" "11" "8" ...
                                 "0.5" "0.5" "1.5" "1" ...
## $ Trans.Fat..g.
                          : chr
                          : chr
                                 "25" "40" "80" "65" ...
## $ Cholesterol..mg.
                                 "520" "750" "1150" "920" ...
## $ Sodium...mg.
                          : chr
                                 "31" "33" "34" "33" ...
## $ Carbs..g.
                          : chr
                                 "2" "2" "2" "2" ...
## $ Fiber..g.
                          : chr
                                 "6" "6" "7" "7" ...
## $ Sugars..g.
                          : chr
                                 "12" "15" "25" "22" ...
## $ Protein..g.
                          : chr
                                 "247.5" "297" "433" "383" ...
## $ Weight.Watchers.Pnts: chr
# converting string column to numeric
i \leftarrow c(3,4,5,6,7,8,9,10,11,12,13,14)
fast_food[, i] <- apply(fast_food[, i], 2, function(x) as.numeric(as.character(x)))</pre>
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): NAs introduced by coercion
sapply(fast_food, class)
##
                Company
                                        Item
                                                         Calories
##
            "character"
                                 "character"
                                                        "numeric"
      Calories.from.Fat
                               Total.Fat..g.
##
                                                Saturated.Fat..g.
```

"numeric"

"numeric"

##

"numeric"

```
##
          Trans.Fat..g.
                            Cholesterol..mg.
                                                     Sodium...mg.
##
              "numeric"
                                   "numeric"
                                                        "numeric"
              Carbs..g.
##
                                   Fiber..g.
                                                       Sugars..g.
##
                                                        "numeric"
              "numeric"
                                   "numeric"
##
            Protein..g. Weight.Watchers.Pnts
##
              "numeric"
                                   "numeric"
str(fast food)
                    1147 obs. of 14 variables:
## 'data.frame':
##
   $ Company
                          : chr
                                 "McDonald's" "McDonald's" "McDonald's" ...
## $ Item
                                 "Hamburger" "Cheeseburger" "Double Cheeseburger" "McDouble" ...
## $ Calories
                                 250 300 440 390 510 740 540 460 510 790 ...
                          : num
                                 80 110 210 170 230 380 260 220 250 350 ...
##
   $ Calories.from.Fat
                          : num
## $ Total.Fat..g.
                                 9 12 23 19 26 42 29 24 28 39 ...
                          : num
  $ Saturated.Fat..g.
                                 3.5 6 11 8 12 19 10 8 11 17 ...
                          : num
##
   $ Trans.Fat..g.
                          : num
                                 0.5 0.5 1.5 1 1.5 2.5 1.5 1.5 1.5 2 ...
##
                                 25 40 80 65 90 155 75 70 85 145 ...
   $ Cholesterol..mg.
                          : num
##
   $ Sodium...mg.
                                 520 750 1150 920 1190 1380 1040 720 960 2070 ...
                          : num
## $ Carbs..g.
                          : num
                                 31 33 34 33 40 40 45 37 38 63 ...
                                 2 2 2 2 3 3 3 3 3 4 ...
## $ Fiber..g.
                          : num
## $ Sugars..g.
                                 6 6 7 7 9 9 9 8 8 13 ...
                          : num
## $ Protein..g.
                          : num
                                 12 15 25 22 29 48 25 24 27 45 ...
   $ Weight.Watchers.Pnts: num
                                248 297 433 383 502 ...
#summary of dataset
summary(fast food)
##
      Company
                           Item
                                             Calories
                                                           Calories.from.Fat
##
   Length:1147
                       Length: 1147
                                          Min.
                                                :
                                                     0.0
                                                           Min. : 0.0
   Class : character
                       Class :character
                                          1st Qu.: 140.0
                                                           1st Qu.: 0.0
                                          Median : 240.0
##
   Mode :character
                       Mode :character
                                                           Median: 80.0
##
                                          Mean
                                                : 287.4
                                                           Mean
                                                                 :117.6
##
                                          3rd Qu.: 390.0
                                                           3rd Qu.:170.0
##
                                          Max.
                                                 :1220.0
                                                           Max.
                                                                  :750.0
##
                                          NA's
                                                 :14
                                                           NA's
                                                                  :517
   Total.Fat..g.
                    Saturated.Fat..g. Trans.Fat..g.
                                                       Cholesterol..mg.
   Min. : 0.00
                    Min. : 0.000
                                      Min.
                                             :0.0000
                                                              : 0.00
##
                                                       Min.
   1st Qu.: 0.00
                    1st Qu.: 0.000
##
                                      1st Qu.:0.0000
                                                       1st Qu.: 0.00
##
  Median: 8.00
                    Median : 3.000
                                      Median :0.0000
                                                       Median : 20.00
  Mean
         :11.68
                    Mean : 4.068
                                      Mean :0.1409
                                                       Mean
                                                             : 40.65
                    3rd Qu.: 6.000
                                                       3rd Qu.: 50.00
##
   3rd Qu.:18.00
                                      3rd Qu.:0.0000
##
   Max.
           :98.00
                    Max.
                           :33.000
                                      Max.
                                             :4.5000
                                                       Max.
                                                              :575.00
```

NA's

Min.

:68

: 0.000

Fiber..g.

NA's

Min.

:28

: 0.00

Sugars..g.

:68

: 0.00

Carbs..g.

NA's

Min.

:68

:

0.0

Sodium...mg.

##

##

##

NA's

Min.

```
## Min. : 0.000
                    Min. : 0.0
  1st Qu.: 0.000
                    1st Qu.: 142.8
## Median : 7.000
                    Median : 272.0
## Mean
         : 9.435
                           : 310.3
                    Mean
## 3rd Qu.:14.000
                    3rd Qu.: 430.0
## Max.
          :71.000
                    Max.
                           :1317.0
## NA's
           :68
                    NA's
                           :271
#assigning string to factors
fast_food$Company = as.factor(fast_food$Company)
fast_food$Item = as.factor(fast_food$Item)
str(fast_food)
## 'data.frame':
                   1147 obs. of 14 variables:
                          : Factor w/ 6 levels "Burger King",..: 3 3 3 3 3 3 3 3 3 ...
   $ Company
##
   $ Item
                          : Factor w/ 1071 levels " Quarter Pounder® with Cheese",..: 419 184 339 659 1
                         : num 250 300 440 390 510 740 540 460 510 790 ...
## $ Calories
## $ Calories.from.Fat : num 80 110 210 170 230 380 260 220 250 350 ...
                                9 12 23 19 26 42 29 24 28 39 ...
## $ Total.Fat..g.
                         : num
                                3.5 6 11 8 12 19 10 8 11 17 ...
## $ Saturated.Fat..g. : num
## $ Trans.Fat..g.
                                0.5 0.5 1.5 1 1.5 2.5 1.5 1.5 1.5 2 ...
                        : num
                                25 40 80 65 90 155 75 70 85 145 ...
## $ Cholesterol..mg.
                         : num
## $ Sodium...mg.
                                520 750 1150 920 1190 1380 1040 720 960 2070 ...
                          : num
                                31 33 34 33 40 40 45 37 38 63 ...
## $ Carbs..g.
                         : num
## $ Fiber..g.
                                2 2 2 2 3 3 3 3 3 4 ...
                         : num
## $ Sugars..g.
                                6 6 7 7 9 9 9 8 8 13 ...
                          : num
                                12 15 25 22 29 48 25 24 27 45 ...
   $ Protein..g.
                          : num
   $ Weight.Watchers.Pnts: num
                                248 297 433 383 502 ...
#checking null values
colSums(is.na(fast_food))
##
                Company
                                        Item
                                                        Calories
##
##
      Calories.from.Fat
                              Total.Fat..g.
                                               Saturated.Fat..g.
##
                   517
          Trans.Fat..g.
##
                            Cholesterol..mg.
                                                    Sodium...mg.
##
                     68
                                         28
                                                              15
##
              Carbs..g.
                                  Fiber..g.
                                                      Sugars..g.
##
                     69
                                         83
                                                              29
##
            Protein..g. Weight.Watchers.Pnts
##
#dropping calories.from.fat column
df = subset(fast_food, select = -c(Calories.from.Fat))
head(df)
##
        Company
                                              Item Calories Total.Fat..g.
## 1 McDonald's
                                         Hamburger
                                                        250
                                                                        9
```

Cheeseburger

300

12

2 McDonald's

```
## 3 McDonald's
                                  Double Cheeseburger
                                                            440
                                                                             23
## 4 McDonald's
                                             McDouble
                                                            390
                                                                             19
## 5 McDonald's
                        Quarter Pounder® with Cheese
                                                            510
                                                                            26
## 6 McDonald's Double Quarter Pounder® with Cheese
                                                            740
                                                                             42
     Saturated.Fat..g. Trans.Fat..g. Cholesterol..mg. Sodium...mg. Carbs..g.
## 1
                    3.5
                                   0.5
                                                      25
                                                                   520
## 2
                    6.0
                                   0.5
                                                      40
                                                                   750
## 3
                   11.0
                                                      80
                                   1.5
                                                                  1150
                                                                               34
## 4
                    8.0
                                   1.0
                                                      65
                                                                   920
                                                                               33
## 5
                                                      90
                                                                               40
                   12.0
                                   1.5
                                                                  1190
## 6
                   19.0
                                   2.5
                                                     155
                                                                  1380
                                                                               40
##
     Fiber..g. Sugars..g. Protein..g. Weight.Watchers.Pnts
## 1
             2
                         6
                                     12
                                                        247.5
                         6
## 2
             2
                                     15
                                                        297.0
## 3
             2
                         7
                                     25
                                                        433.0
## 4
             2
                         7
                                     22
                                                        383.0
## 5
             3
                         9
                                     29
                                                        502.0
                         9
## 6
             3
                                     48
                                                        720.0
#removing na values
#df = na.omit(df)
head(df)
##
        Company
                                                  Item Calories Total.Fat..g.
## 1 McDonald's
                                            Hamburger
                                                            250
                                                                             9
## 2 McDonald's
                                         Cheeseburger
                                                            300
                                                                             12
## 3 McDonald's
                                  Double Cheeseburger
                                                            440
                                                                             23
## 4 McDonald's
                                                            390
                                             McDouble
                                                                            19
## 5 McDonald's
                        Quarter Pounder® with Cheese
                                                            510
                                                                             26
## 6 McDonald's Double Quarter Pounder® with Cheese
                                                            740
                                                                            42
     Saturated.Fat..g. Trans.Fat..g. Cholesterol..mg. Sodium...mg. Carbs..g.
## 1
                    3.5
                                   0.5
                                                      25
                                                                   520
                                                                               31
## 2
                    6.0
                                   0.5
                                                      40
                                                                   750
                                                                               33
## 3
                   11.0
                                   1.5
                                                      80
                                                                  1150
                                                                               34
## 4
                    8.0
                                   1.0
                                                      65
                                                                   920
                                                                               33
## 5
                   12.0
                                   1.5
                                                      90
                                                                  1190
                                                                               40
                   19.0
                                   2.5
                                                     155
                                                                  1380
                                                                               40
     Fiber..g. Sugars..g. Protein..g. Weight.Watchers.Pnts
## 1
             2
                         6
                                     12
                                                        247.5
## 2
             2
                         6
                                     15
                                                        297.0
## 3
             2
                         7
                                     25
                                                        433.0
## 4
             2
                         7
                                     22
                                                        383.0
## 5
             3
                         9
                                     29
                                                        502.0
## 6
             3
                         9
                                     48
                                                        720.0
#checking correlation between columns
correlation_table = cor(df[,3:13],use = 'complete.obs')
print(correlation_table)
##
                          Calories Total.Fat..g. Saturated.Fat..g. Trans.Fat..g.
## Calories
                         1.0000000
                                        0.8240320
                                                          0.80432130
                                                                         0.57871050
```

0.88821190

0.57535310

1.0000000

0.8240320

Total.Fat..g.

```
## Saturated.Fat..g.
                         0.8043213
                                       0.8882119
                                                         1.0000000
                                                                        0.70076258
## Trans.Fat..g.
                                                         0.70076258
                         0.5787105
                                       0.5753531
                                                                        1.00000000
                                       0.7210375
## Cholesterol..mg.
                         0.6252053
                                                         0.72628753
                                                                        0.38015473
## Sodium...mg.
                         0.7179522
                                       0.8253916
                                                         0.67517285
                                                                        0.35821025
## Carbs..g.
                         0.6583407
                                       0.1366090
                                                         0.23010921
                                                                        0.20484939
## Fiber..g.
                         0.4449910
                                       0.4455613
                                                         0.31132008
                                                                        0.11634982
## Sugars..g.
                         0.2984883
                                      -0.2352715
                                                        -0.07454486
                                                                        0.04967015
## Protein..g.
                         0.7442321
                                       0.8173856
                                                         0.76749037
                                                                        0.63587200
## Weight.Watchers.Pnts 0.9884115
                                       0.7416688
                                                         0.75019460
                                                                        0.54972549
##
                         Cholesterol..mg. Sodium...mg. Carbs..g.
                                                                   Fiber..g.
## Calories
                                0.6252053
                                              0.7179522 0.6583407
                                                                   0.4449910
## Total.Fat..g.
                                0.7210375
                                              0.8253916 0.1366090
                                                                   0.4455613
## Saturated.Fat..g.
                                0.7262875
                                              0.6751729 0.2301092
                                                                   0.3113201
## Trans.Fat..g.
                                              0.3582103 0.2048494
                                0.3801547
                                                                   0.1163498
## Cholesterol..mg.
                                1.0000000
                                             0.6856512 0.1135675
                                                                   0.2702619
## Sodium...mg.
                                0.6856512
                                              1.0000000 0.1306725
                                                                   0.5881992
                                              0.1306725 1.0000000
## Carbs..g.
                                0.1135675
                                                                   0.1615138
## Fiber..g.
                                0.2702619
                                              0.5881992 0.1615138
                                                                   1.0000000
                               -0.1692814
                                             -0.2852356 0.8679442 -0.2053926
## Sugars..g.
## Protein..g.
                                0.6980781
                                              0.8102137 0.1157212
                                                                   0.4460572
## Weight.Watchers.Pnts
                                0.5613171
                                              0.6278657 0.7570152 0.3855712
##
                          Sugars..g. Protein..g. Weight.Watchers.Pnts
## Calories
                                       0.7442321
                          0.29848834
                                                             0.9884115
## Total.Fat..g.
                         -0.23527150
                                       0.8173856
                                                             0.7416688
## Saturated.Fat..g.
                         -0.07454486
                                       0.7674904
                                                             0.7501946
## Trans.Fat..g.
                          0.04967015
                                       0.6358720
                                                             0.5497255
## Cholesterol..mg.
                         -0.16928142
                                       0.6980781
                                                             0.5613171
## Sodium...mg.
                         -0.28523561
                                       0.8102137
                                                             0.6278657
## Carbs..g.
                          0.86794418
                                       0.1157212
                                                             0.7570152
## Fiber..g.
                         -0.20539255
                                       0.4460572
                                                             0.3855712
## Sugars..g.
                          1.00000000
                                      -0.2143395
                                                             0.4377990
## Protein..g.
                         -0.21433945
                                       1.0000000
                                                             0.6559830
## Weight.Watchers.Pnts
                         0.43779904
                                       0.6559830
                                                             1.0000000
```

UNSATURATED FAT: These are the good fats, and doctors say they should be the majority of fat that people eat. For cooking, they usually come in the form of liquid oils, not solid fats. Unsaturated fats are listed on food packages as polyunsaturated fats and monounsaturated fats.

SATURATED FAT: These fats are often derived from animals and generally take a more solid form. They raise "bad" cholesterol and can contribute to heart disease. The government recommends that saturated fats make up less than 10 per cent of daily calories. Common sources include:

- high-fat cheeses
- high-fat cuts of meat
- · whole-fat milk and cream and ice cream
- butter
- palm and coconut oils

TRANS FAT: These are the worst fats, and the FDA is forcing food companies to phase them out. They are made when hydrogen is added to vegetable oil, usually to create a certain consistency or increase shelf life, and they are also called partially hydrogenated oils. Many of them have already been phased out, but foods that are more likely to contain trans fats are:

• fried items

- pie crusts
- stick margarine
- ready-to-use frosting
- coffee creamers
- some microwave popcorn and frozen pizza some cakes, crackers and cookies

```
#check few column relationship through graph
ggplot(df,aes(x = Trans.Fat..g.,y = Protein..g. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm',se

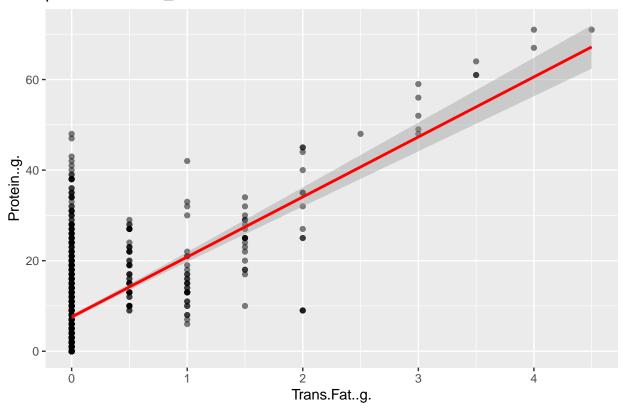
## 'geom_smooth()' using formula = 'y ~ x'

## Warning: Removed 68 rows containing non-finite outside the scale range
## ('stat_smooth()').

## Warning: Removed 68 rows containing missing values or values outside the scale range
## ('geom_point()').
```

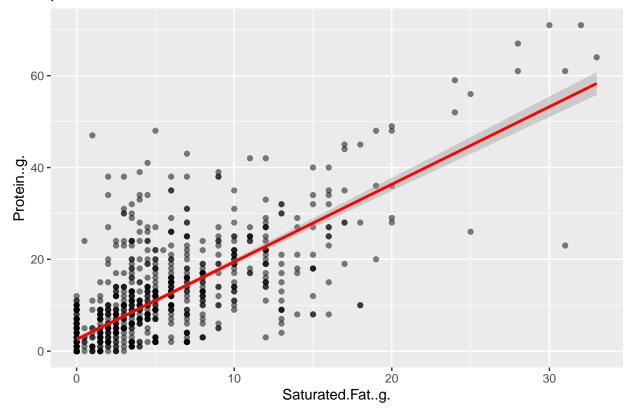
protein vs trans_fat

('geom_point()').



```
ggplot(df,aes(x = Saturated.Fat..g.,y = Protein..g. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm
## 'geom_smooth()' using formula = 'y ~ x'
## Warning: Removed 68 rows containing non-finite outside the scale range
## ('stat_smooth()').
## Removed 68 rows containing missing values or values outside the scale range
```

protein vs saturated_fat



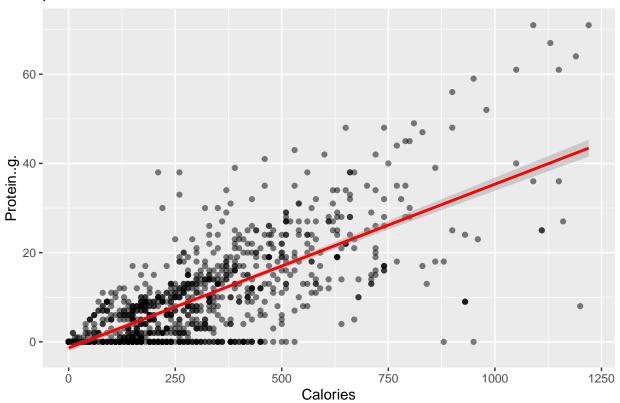
```
ggplot(df,aes(x = Calories,y = Protein..g. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm',se = TR

## 'geom_smooth()' using formula = 'y ~ x'

## Warning: Removed 68 rows containing non-finite outside the scale range
## ('stat_smooth()').

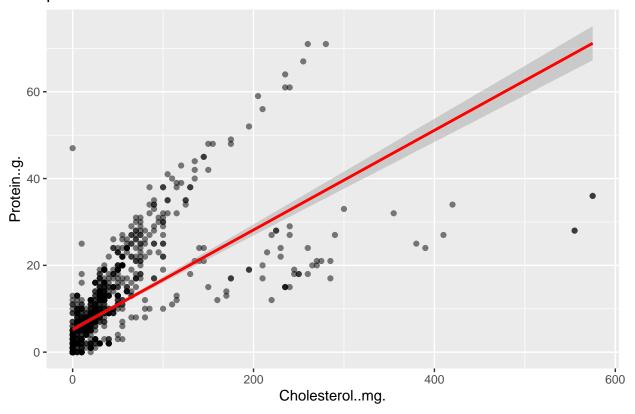
## Removed 68 rows containing missing values or values outside the scale range
## ('geom_point()').
```

protein vs calories



```
ggplot(df,aes(x = Cholesterol..mg.,y = Protein..g. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm'
## 'geom_smooth()' using formula = 'y ~ x'
## Warning: Removed 82 rows containing non-finite outside the scale range
## ('stat_smooth()').
## Warning: Removed 82 rows containing missing values or values outside the scale range
## ('geom_point()').
```

protein vs cholestrol



```
ggplot(df,aes(x = Fiber..g.,y = Protein..g.))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm',se = '
## 'geom_smooth()' using formula = 'y ~ x'

## Warning: Removed 83 rows containing non-finite outside the scale range
## ('stat_smooth()').

## Warning: Removed 83 rows containing missing values or values outside the scale range
## ('geom_point()').
```

protein vs fiber 60 20 Fiber..g.

```
ggplot(df,aes(x = Trans.Fat..g.,y = Sodium...mg. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm',s

## 'geom_smooth()' using formula = 'y ~ x'

## Warning: Removed 68 rows containing non-finite outside the scale range
## ('stat_smooth()').

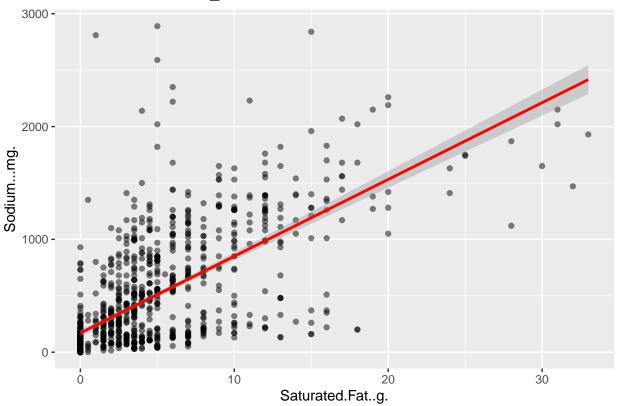
## Warning: Removed 68 rows containing missing values or values outside the scale range
## ('geom_point()').
```

sodium vs trans_fat

```
ggplot(df,aes(x = Saturated.Fat..g.,y = Sodium...mg. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'le'
## 'geom_smooth()' using formula = 'y ~ x'

## Warning: Removed 68 rows containing non-finite outside the scale range
## ('stat_smooth()').
## Removed 68 rows containing missing values or values outside the scale range
## ('geom_point()').
```

sodium vs saturated_fat



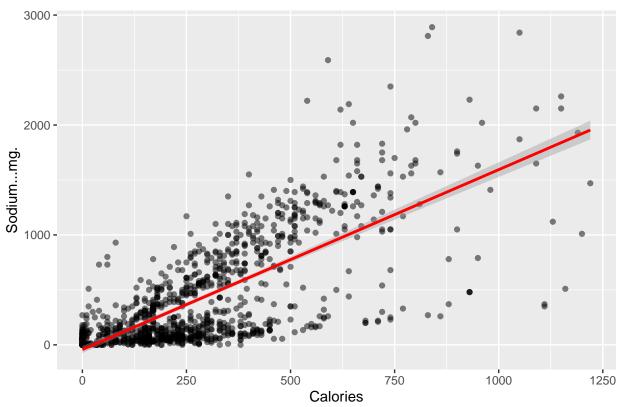
```
ggplot(df,aes(x = Calories,y = Sodium...mg. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm',se = T.

## 'geom_smooth()' using formula = 'y ~ x'

## Warning: Removed 15 rows containing non-finite outside the scale range
## ('stat_smooth()').

## Warning: Removed 15 rows containing missing values or values outside the scale range
## ('geom_point()').
```

sodium vs calories

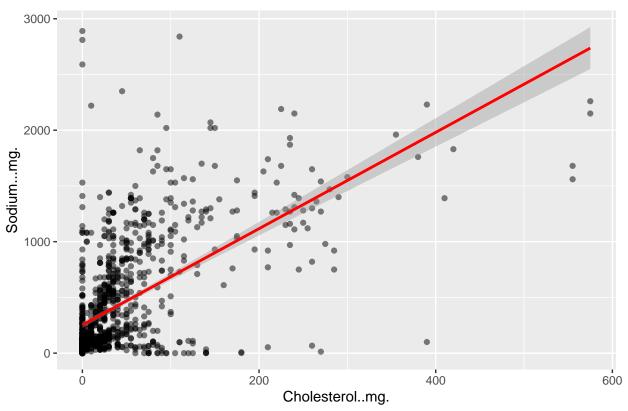


```
ggplot(df,aes(x = Cholesterol..mg.,y = Sodium...mg. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm
## 'geom_smooth()' using formula = 'y ~ x'

## Warning: Removed 29 rows containing non-finite outside the scale range
## ('stat_smooth()').

## Warning: Removed 29 rows containing missing values or values outside the scale range
## ('geom_point()').
```

sodium vs cholestrol



```
ggplot(df,aes(x = Fiber..g.,y = Sodium...mg. ))+geom_point(alpha = 0.5)+geom_smooth(method = 'lm',se =
## 'geom_smooth()' using formula = 'y ~ x'
## Warning: Removed 83 rows containing non-finite outside the scale range
## ('stat_smooth()').
## Warning: Removed 83 rows containing missing values or values outside the scale range
## ('geom_point()').
```

sodium vs fiber

