Status Report #1

2025-09-25

```
Load Dataset
HeartAttack <- read.csv("~/Downloads/HeartAttack.csv")</pre>
Status Report #1: Clean data, find outliers, create data dictionary.
# Load packages
library(dplyr)
## Attaching package: 'dplyr'
   The following objects are masked from 'package:stats':
##
##
       filter, lag
  The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
# Head data to see variable names/see noticeable missing values
                       # Variable names look appropriate and no missing values seen yet
head(HeartAttack)
     Age Gender Cholesterol BloodPressure HeartRate BMI Smoker Diabetes
## 1
           Male
                         194
                                        162
                                                   71 22.9
## 2
     69
           Male
                         208
                                        148
                                                   93 33.9
                                                                 1
                                                                           1
## 3
      34 Female
                         132
                                        161
                                                   94 34.0
                                                                           0
## 4
      53
           Male
                         268
                                        134
                                                   91 35.0
                                                                           1
                                        140
## 5
      57 Female
                         203
                                                   75 30.1
                                                                           1
     41
           Male
                         158
                                        154
                                                   72 38.7
     Hypertension FamilyHistory PhysicalActivity AlcoholConsumption
                                                                             Diet
## 1
                                                                     0 Unhealthy
## 2
                0
                               0
                                                 1
                                                                     2 Unhealthy
## 3
                               1
                                                 1
                                                                          Healthy
## 4
                               0
                                                 6
                                                                          Healthy
## 5
                                                 4
                                                                        Moderate
## 6
                                                 3
                                                                     2 Moderate
                               1
     StressLevel Ethnicity Income EducationLevel Medication ChestPainType
               1 Hispanic 64510
                                       High School
## 1
                                                           Yes
                                                                     Typical
## 2
               6
                      Asian 91773
                                           College
                                                            No
                                                                    Atypical
## 3
               3
                      Black 173550
                                           College
                                                            No
                                                                 Non-anginal
                                       High School
               3
                  Hispanic 43861
                                                           Yes
                                                                    Atypical
## 5
                  Hispanic 83404
                                       High School
                                                           Yes
               1
                                                                     Typical
## 6
               4
                      Other 113011
                                       High School
                                                           Yes
                                                                 Non-anginal
           ECGResults MaxHeartRate ST_Depression ExerciseInducedAngina
                                                                                 Slope
## 1 ST-T abnormality
                                173
                                              0.52
                                                                      Yes Downsloping
```

3.79

0.17

Yes

Yes

Upsloping

Upsloping

189

122

2

3

LV hypertrophy

Normal

```
## 4 ST-T abnormality
                                104
                                              0.67
                                                                       Yes
                                                                                  Flat
                                              5.00
## 5 ST-T abnormality
                                126
                                                                       Yes
                                                                                   Flat
       LV hypertrophy
                                              4.30
                                155
     NumberOfMajorVessels
                                 Thalassemia PreviousHeartAttack StrokeHistory
## 1
                                       Normal
                                                                 0
                                                                                0
## 2
                         2
                                       Normal
                                                                 0
                                                                                0
## 3
                                       Normal
                                                                                0
                         O Reversible defect
## 4
                                                                                0
                                                                  1
## 5
                                Fixed defect
                                                                                0
## 6
                         2 Reversible defect
                                                                                0
     Residence EmploymentStatus MaritalStatus
                                                         Outcome
## 1
      Suburban
                         Retired
                                         Single No Heart Attack
      Suburban
                                        Married No Heart Attack
                      Unemployed
## 3
         Rural
                         Retired
                                         Single
                                                    Heart Attack
## 4
      Suburban
                         Retired
                                        Widowed No Heart Attack
## 5
         Rural
                         Retired
                                        Married
                                                    Heart Attack
## 6
         Rural
                      Unemployed
                                        Married
                                                    Heart Attack
# Find missing values
colSums(is.na(HeartAttack))
                                    # This shows the missing values in each column.
##
                                          Gender
                                                            Cholesterol
                      Age
##
##
           BloodPressure
                                       HeartRate
                                                                    BMT
##
##
                   Smoker
                                        Diabetes
                                                           Hypertension
##
                                                     AlcoholConsumption
##
           FamilyHistory
                               PhysicalActivity
##
##
                     Diet
                                     StressLevel
                                                              Ethnicity
##
##
                   Income
                                  EducationLevel
                                                             Medication
##
           ChestPainType
                                      ECGResults
                                                           MaxHeartRate
##
##
           ST_Depression ExerciseInducedAngina
                                                                   Slope
##
    NumberOfMajorVessels
##
                                                    PreviousHeartAttack
                                     Thalassemia
##
                                               0
##
           StrokeHistory
                                       Residence
                                                       EmploymentStatus
##
                        0
##
           MaritalStatus
                                         Outcome
##
                        0
# Zero missing values in each column.
# Find outliers in the data
sapply(Filter(is.numeric, HeartAttack), \(x) length(boxplot.stats(x)$out))
##
                                                       BloodPressure
                                   Cholesterol
                     Age
                       0
##
                                             0
                                                                    0
##
                                           BMT
                                                              Smoker
              HeartRate
##
##
               Diabetes
                                  Hypertension
                                                       FamilyHistory
##
       PhysicalActivity
                           AlcoholConsumption
##
                                                         StressLevel
```

```
##
                     0
                                         0
##
                              MaxHeartRate
                Income
                                                 ST_Depression
##
## NumberOfMajorVessels PreviousHeartAttack
                                                 StrokeHistory
                                                             0
# No values are outside the outlier bounds
# See column names and type of data for each column.
str(HeartAttack)
                  372974 obs. of 32 variables:
## 'data.frame':
## $ Age
                         : int 31 69 34 53 57 41 45 61 45 30 ...
                          : chr "Male" "Male" "Female" "Male" ...
## $ Gender
## $ Cholesterol
                         : int 194 208 132 268 203 158 237 218 216 143 ...
## $ BloodPressure
                         : int 162 148 161 134 140 154 168 113 114 130 ...
                         : int 71 93 94 91 75 72 114 115 72 91 ...
## $ HeartRate
## $ BMI
                         : num 22.9 33.9 34 35 30.1 38.7 21.7 23.1 24.8 24.7 ...
## $ Smoker
                         : int 0 1 0 0 0 0 0 0 0 1 ...
## $ Diabetes
                         : int
                               1 1 0 1 1 1 0 1 1 1 ...
## $ Hypertension
                         : int 0011000000...
## $ FamilyHistory
                         : int 0010010110...
## $ PhysicalActivity
                         : int 6 1 1 6 4 3 0 4 2 6 ...
## $ AlcoholConsumption
                         : int 0 2 3 0 1 2 2 4 4 2 ...
                         : chr "Unhealthy" "Unhealthy" "Healthy" "Healthy" ...
## $ Diet
## $ StressLevel
                         : int 1633145523...
## $ Ethnicity
                         : chr "Hispanic" "Asian" "Black" "Hispanic" ...
## $ Income
                         : int 64510 91773 173550 43861 83404 113011 61069 74686 148763 184885 ...
## $ EducationLevel
                        : chr "High School" "College" "College" "High School" ...
                         : chr "Yes" "No" "No" "Yes" ...
## $ Medication
                         : chr "Typical" "Atypical" "Non-anginal" "Atypical" ...
## $ ChestPainType
## $ ECGResults
                         : chr "ST-T abnormality" "LV hypertrophy" "Normal" "ST-T abnormality" ...
## $ MaxHeartRate
                         : int 173 189 122 104 126 155 171 101 174 130 ...
                         : num 0.52 3.79 0.17 0.67 5 4.3 2.48 2.81 2.23 3.02 ...
## $ ST_Depression
## $ ExerciseInducedAngina: chr "Yes" "Yes" "Yes" "Yes" ...
                         : chr "Downsloping" "Upsloping" "Upsloping" "Flat" ...
## $ Slope
## $ NumberOfMajorVessels : int 1 2 0 0 0 2 0 1 3 0 ...
## $ Thalassemia
                         : chr "Normal" "Normal" "Reversible defect" ...
## $ PreviousHeartAttack : int 0 0 1 1 1 0 1 1 0 0 ...
## $ StrokeHistory
                       : int 0000001011...
## $ Residence
                         : chr "Suburban" "Suburban" "Rural" "Suburban" ...
## $ EmploymentStatus
                         : chr "Retired" "Unemployed" "Retired" "Retired" ...
                         : chr "Single" "Married" "Single" "Widowed" ...
## $ MaritalStatus
## $ Outcome
                         : chr "No Heart Attack" "No Heart Attack" "Heart Attack" "No Heart Attack"
# Look at responses for each column
lapply(HeartAttack, unique) # This will help us see if there are errors in each column, and we ca
## $Age
## [1] 31 69 34 53 57 41 45 61 30 84 36 35 38 37 32 82 76 49 79 48 80 42 52 74 73
## [26] 81 72 78 55 54 60 50 71 33 75 68 44 77 65 66 67 63 70 62 51 43 59 46 64 83
## [51] 56 40 47 39 58
##
## $Gender
## [1] "Male"
               "Female"
```

##

```
## $Cholesterol
    [1] 194 208 132 268 203 158 237 218 216 143 151 168 249 230 172 193 113 145
   [19] 278 155 131 209 251 157 206 215 293 154 219 102 273 124 115 291 288 236
   [37] 299 260 282 117 257 159 179 239 175 184 283 281 169 212 298 103 266 224
   [55] 174 265 188 142 126 220 187 247 178 254 225 170 191 270 240 148 177 152
   [73] 286 101 171 190 211 125 107 161 261 253 245 114 130 267 246 182 105 292
  [91] 138 122 201 186 272 255 144 108 119 242 121 156 256 221 204 120 189 118
## [109] 109 166 285 289 199 297 200 238 140 139 123 106 277 150 275 181 180 250
## [127] 153 259 233 284 287 198 229 232 280 134 264 110 141 147 162 149 226 235
## [145] 116 207 271 222 227 100 176 129 165 146 183 217 258 127 223 167 197 160
## [163] 263 276 137 228 269 163 135 252 234 295 185 128 274 133 136 213 244 164
## [181] 296 248 290 202 104 214 231 241 262 196 112 205 111 210 192 195 279 173
## [199] 243 294
##
## $BloodPressure
   [1] 162 148 161 134 140 154 168 113 114 130 163 144 146 107 126 153 109 129 123
       98 167 118 147 120 119 166 122 102 96 135 137 141 157 103 158 179 173 106
## [39] 145 99 100 177 160 169 105 115 108 136 142 111 117 124 174 93 128 95 125
## [58] 132 92 116 155 150 104 138 110 149 151 171 156 152 159 172 121 97 133 94
## [77] 170 127 131 175 139 143 90 112 91 164 178 101 165 176
##
## $HeartRate
       71 93 94 91 75 72 114 115 111 92 65 60 119 67 68 88 101 106 112
   [1]
        81 107 63 64 70 105 89 78 69 109
## [20]
                                                66
                                                    97 108 76
                                                                82 117 100 118 102
## [39]
       73 90 104 110 61 79 80 84 103 86 98 85 62 113 83 99 77 96 116
  [58] 87 95 74
##
## $BMI
##
    [1] 22.9 33.9 34.0 35.0 30.1 38.7 21.7 23.1 24.8 24.7 31.7 29.8 20.1 20.3 34.6
   [16] 24.6 19.6 22.1 30.0 33.8 19.1 28.0 23.8 32.0 39.8 27.1 27.3 35.2 24.9 25.8
   [31] 28.9 36.5 22.7 25.1 29.6 28.4 29.0 26.4 30.9 23.6 23.5 19.4 27.6 33.0 33.7
   [46] 22.2 18.1 28.6 34.8 34.4 31.6 35.8 32.6 28.7 27.8 30.2 22.8 23.2 21.2 38.0
   [61] 39.9 33.3 31.5 21.4 39.5 28.5 38.6 31.0 38.2 39.7 20.6 39.0 19.9 29.3 22.0
   [76] 38.1 26.5 20.7 33.5 39.3 30.4 25.9 22.4 19.8 23.7 35.9 27.2 28.8 34.3 25.4
   [91] 31.3 25.2 30.3 20.5 18.8 31.4 28.1 19.5 32.7 30.7 37.3 36.8 26.3 34.5 26.1
## [106] 39.2 28.3 25.6 32.1 38.4 39.6 25.5 26.2 37.9 19.0 21.5 21.3 36.3 35.5 31.2
## [121] 37.8 24.5 18.2 29.2 22.6 29.1 35.4 32.4 29.5 37.7 22.5 27.4 30.6 18.4 35.6
## [136] 37.1 27.5 29.4 19.7 23.3 33.4 30.5 18.3 20.8 26.7 31.8 26.8 36.4 19.3 21.9
## [151] 37.4 33.6 35.1 20.0 21.0 37.0 27.7 30.8 31.9 26.9 20.4 18.7 24.4 21.1 36.9
## [166] 38.8 33.1 22.3 18.6 38.9 25.7 36.2 33.2 29.7 29.9 24.3 34.1 35.3 21.6 18.9
## [181] 37.5 38.3 39.4 20.2 31.1 32.5 27.9 36.1 32.8 34.9 35.7 38.5 23.9 24.2 19.2
## [196] 25.3 36.7 24.1 36.6 36.0 32.9 39.1 32.2 25.0 23.0 32.3 27.0 21.8 28.2 20.9
## [211] 26.6 37.2 34.7 23.4 34.2 26.0 37.6 24.0 18.5 40.0 18.0
##
## $Smoker
## [1] 0 1
##
## $Diabetes
## [1] 1 0
## $Hypertension
## [1] 0 1
##
## $FamilyHistory
```

```
## [1] 0 1
##
## $PhysicalActivity
## [1] 6 1 4 3 0 2 5
## $AlcoholConsumption
## [1] 0 2 3 1 4
##
## $Diet
## [1] "Unhealthy" "Healthy"
                              "Moderate"
## $StressLevel
## [1] 1 6 3 4 5 2 9 8 7
##
## $Ethnicity
  [1] "Hispanic" "Asian"
                            "Black"
                                       "Other"
                                                  "White"
##
##
  $Income
##
           64510 91773 173550 43861 83404 113011 61069 74686 148763 184885
       [1]
##
      [11] 141912 125480 192972
                                31259
                                       54227 109079
                                                     25792 120079 73188 75446
##
      [21] 126937 193575 53402
                                88793 75235 63478 181844
                                                            39142 130245
##
           50756 152299 68856
                               58226 125375 198078 76797
                                                           41214 166883
##
           56309 101372 120707 193323 166484 42499 126720 184397 188264 104501
      [41]
      [51] 147826 158156 104353 57159 199443 145161 152092 43300
##
                                                                   93613
           52809 107894 180137 179785 69502 113019 48729
                                                            99168 74539 189795
##
      [61]
##
      [71]
           32277 92340 75978 93010 66102 42386
                                                     38042 180170 135423 170677
##
      [81]
           68900 108421 22958 182909
                                      45084
                                              36676
                                                     38023
                                                            77465 83533 56915
      [91] 141159 86576 146826 110331 23486 77360
                                                     52094
##
                                                            62641 195894 77038
##
           88898 185823 171634 50301 156564 131320 82082
                                                            35280 165805 169054
     [101]
##
     [111] 151008 43973 75912 61237 184542 126094 195971
                                                            22216 144205 131238
##
     [121] 181253
                  35142 190355
                                75675 101854 118818 116426 135864 173217 150661
##
     [131]
           63057
                  40733 109246 170185 64448 72040 31377 124476 153819 148876
##
     [141] 102308 41723 86035 27838 196118 182171 94976
                                                           31304 141403 140328
           70977 120706 83904 133648 158023 169366 107178
                                                            93721 86133 105689
##
     [151]
##
     [161] 122912 104207 52549 99727 125887 137896 193261
                                                            98201
                                                                   74353 199373
##
           83725 137983 155014 75240 197896 115000 125089 192307
                                                                   38349 178104
     [171]
##
           82604 99816 55043 163326 123995 154245 185883
                                                            78426 171080 121031
##
     [191] 152502 112591 167360 120561 36703 113747 190237
                                                            23091 36815 128682
##
     [201]
           97006 73529 47842 121687 153710 53431 133645
                                                            48743 113636
##
     [211]
           78414 89315 106126 57197 125799 122823 75661
                                                            32753 117198 73161
     [221] 191447 146920 160630 165393 186997 53066
##
                                                     30516 126223 170311
##
     [231]
           97609 54526 128590 68503 64164 61061 42714 179318 63795 148698
           47950 105398 139541 103788 160150 102797 127757 145592
##
     [241]
                                                                   89089 49184
##
     [251]
           64927 43459 127240 144799 144501 124523 140238 33049 144581 163919
     [261] 171976 187524 196189 30363
                                       24823 98861 195260
##
                                                            36843 131485
##
     [271] 166039 160719 164463 199537
                                       72044 114752 81348 156462
                                                                 67460
                                                                          36649
##
     [281]
           65802 192569 102705 153855 188863 151034 159903 158534 153814 149446
           58784 152005 67939 161249
                                      66808 69197 42129 141795
##
     [291]
                                                                 80088 107802
##
     [301] 137809 120664 48971 148994 67960 97930 58921 104086 72965 32092
##
     [311] 105831 40080 190194 106514 113801 124014 109103
                                                            97211 136786
##
           49124 194629 158502 182538
                                       35664 144551 162551
                                                            49422 184682 182468
     [321]
##
     [331] 113614 29742 51735 43779 97834 49527
                                                    56297
                                                            77583 85455 106563
##
     [341] 184468 140057 63447 199801 166678 170997 41490
                                                            70892 46681 102618
##
     [351] 148050 196496 20891 39350 193141 88448 128210 58273 180914 70693
```

```
[361] 48961 94125 38265 38018 176005 39004 113677 82806 86405 165000
##
##
    [371] 166191 25217 125975 70550 100923 123972 49415 163967 56220 71847
##
    [381] 187518 126027 113510 183608 165008 140389 133842 107594 124306 43453
##
    [391] 187077 57724 90419 92493 73470 181013 181011 153188 70059 54505
##
    [401] 49096 49501 186153 194966 63046 33000 127162 151027 52012 88727
##
    [411] 126886 149249 198163 177749 34070 121673 24740 127050 187381 110807
##
    [421] 190646 134981 121553 59067 147354 196254 93193 140758 164172 91906
##
    [431] 106645 37250 149509 114703 153874 197683 39524 178223 187976 63936
##
    [441] 91124 108078 133351 174692 188251 182716 20471 87283 185352 122742
##
    [451] 95316 45733 108958 117660 181850 168616 108771 101935 72232 89595
##
     [461] 128559 194620 132284 107493 39270 127087 136948 199201 130931 138933
    [471] 97555 143784 89597 71486 100323 118943 27824 95019 84299 90141
##
    [481] 138185 151618 51978 188262 157001 190643 56495 72893 192621 131295
##
##
    [491] 90479 192666 38044 47937 122478 90946 184263 94583 89358 51513
##
    [501] 107298 94404 194096 180864 96205 56336 188488 164665 122047 49608
    [511] 61864 68320 80554 153987 185332 79048 35657 47958 79694 132020
##
##
    [521] 171225 55816 24023 100591 100746 119621 20472
                                                          80602 99671 150623
    [531] 181330 78466 168309 181812 137643 104885 82550
##
                                                          29571 184653 130703
##
    [541] 73603 36713 130536 135418 102828 69431 192088 49114 160184 75380
    [551] 50585 151350 177412 198345 22470 54467 77222 120650 134660 162658
##
##
    [561] 151150 35154 109144 34080 162734 65129 153697 90523 87527 93686
##
    [571] 172530 35315 131043 29243 48333 183453 139885 84031 164681 115123
    [581] 130887 180988 173057 82258 107481 38624 148850 57131 91611 159294
##
##
    [591] 151886 64197 95716 98031 62716 86777 103627 101659 129893 199026
    [601] 92956 187677 163123 183353 112967 109455 155115 152128 162255 148303
##
##
    [611] 147086 164294 71139 111221 175826 143420 184671 50803 27899 155617
##
    [621] 36925 170131 97329 138861 57320 97453 93500 166684 20429 196272
    [631] 163912 145212 156046 96618 135631 80527 49171 72891 116396 124273
##
##
    [641] 161159 72623 151875 160576 199078 85918 136366 156738 129723 161932
     [651] 59959 54571 148248 73545 57954 67972 74390 122014 157607 78188
##
     [661] 157597 173685 104892 113374 85852 81550 118681 20173 176051 63702
##
##
     [671] 57798 121661 68171 87020 116401 34352 85932 32875 95874 172151
    [681] 91900 128488 104616 144344 122484 152737 39879 53960 190670 117091
##
##
    [691] 192248 76445 162899 80729 132141 61358 32183 100560 178876 153505
    [701] 199934 20897 116319 27543 32749 124871 169906 126024 183689 37898
##
##
    [711] 121399 103682 148028 157742 39088 82481 85335 154325 164385 106626
##
    [721] 49485 152025 32926 35040 151200 61106 49610 89953 70378 152806
##
    [731] 96487 196030 89142 55195 135337 44230 129455 129224 44779 160298
##
    [741] 55126 31878 112566 188182 123641 190124 23285 52568
                                                                 29412 103440
    [751] 79815 40160 76044 188538 116414 32675 117633 121999 73413 68612
##
##
    [761] 34967 35509 71252 176482 55509 179447 145129 118626 166035 85193
    [771] 170747 153021 33362 78442 144703 129754 31053 70273 90947 43569
##
    [781] 173412 163863 118831 40377 99275 143506 154367 102815 163275 121329
##
##
    [791] 147804 104012 147335 57388 21260 20628 78014 190669 184222 89389
    [801] 73707 54389 118303 170157 69300 69482 28287 98809 196797 22203
##
    [811] 104176 172472 182049 35541 110655 38093 121319 166088 106510 168785
##
     [821] 191641 115780 176668 141220 31770 64312 162131 52569 143107 190592
##
##
    [831] 171855 92645 87449 154291 134192 44807 85539 111568 190413 92531
##
     [841] 43242 40909 186305 52389 138873 83372 33246 126594 187888 159720
    [851] 157723 122743 118764 37429 181216 169602 189499 134431 44719 175802
##
##
    [861] 71494 114476 141465 77376 89365 175613 168600 104907 191016 27548
    [871] 122919 118870 186610 152756 161255 95104 27841 103035 187214 186185
##
##
    [881] 49734 83592 91730 103096 146753 37896 169050 89165 138526 70660
    [891] 20127 56386 170432 193828 65082 158340 181363 194286 162041 183133
##
```

```
##
     [901] 67864 34741 126726 67626 40652 194518 149968 44898 149755 127183
##
     [911] 125641 132967 136369 102697 55795 91391 109336 135508 148393 139131
##
          94735 179423 78115 57008 142171 181333 159005 77940 99702 116952
           29791 84642 146735
                               40423 38203 163517 47170
                                                          29494
##
    [931]
                                                                 55810 51338
##
    [941] 156510 187692 121192
                               40384 169113 43375 96492
                                                          72206 138785 124403
##
           77221 131762 146284 33661 154655 44387 123344 109233 65075 87061
    [961] 151852 165862 74424 108943 48979 156223 58772 110681
##
           31887 135320 79123 103234 34978 191212 161397 154666
##
    [971]
                                                                 71074 38074
##
    [981] 183904 158687 41437 66915 82966 56741 128212 38818
                                                                 41776 175089
##
           47916 125551 56537 62085 145715 172733 96068 177793
                                                                 23864 129706
    [991]
    [1001] 119550 71979 75175 148166 119580 80787 139653 122444 132306 36277
          55661 177985 140541 70089 188034 99427 169991 174055
                                                                44797 44759
    [1011]
##
    [1021] 154802 108287 45854 149954 65801 178007 62428 62482 60267 148832
    [1031]
          26666 188706 63559 79027 157439 63881 111720 21478 153729 154995
##
##
    [1041]
           56256 59860 177888 53638 33845 63362 163286 106996
                                                                81673 97337
##
    [1051]
           39909 64064 101413
                               32076 111809 164456 149274 53690
                                                                 96272 121519
##
    [1061]
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##
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## [166] 2.10 0.45 2.50 4.52 0.76 3.74 4.07 1.29 4.57 0.18 2.86 3.24 3.85 3.67 3.64
## [181] 2.60 1.36 1.69 4.73 3.14 4.74 0.59 2.17 0.84 3.33 1.71 3.88 0.51 1.39 3.43
## [196] 0.26 0.40 2.30 0.86 4.92 4.11 2.20 4.90 4.95 1.40 4.39 1.17 1.73 1.65 2.03
## [211] 4.80 2.90 3.63 4.75 1.12 2.04 4.16 3.77 1.87 0.47 4.15 0.19 3.56 0.43 4.64
## [226] 2.33 1.43 1.83 1.24 0.42 3.44 1.45 2.78 2.15 3.68 4.72 4.46 1.32 3.31 4.01
## [241] 0.38 0.95 3.40 1.42 0.11 1.98 3.73 3.26 0.48 3.52 0.20 0.83 2.13 2.96 3.30
## [256] 0.10 3.42 1.46 2.80 1.58 2.08 0.73 1.70 0.74 2.76 1.91 4.29 1.82 1.20 0.81
## [271] 3.08 0.16 4.67 0.64 1.85 2.47 1.62 0.56 2.88 4.21 2.36 3.23 0.21 0.50 3.55
## [286] 2.55 0.63 1.47 2.66 4.03 0.39 3.16 3.35 4.37 3.69 3.94 2.87 4.49 2.09 4.89
## [301] 1.92 2.31 1.74 4.77 4.36 0.90 2.63 4.12 2.05 2.61 2.64 1.09 3.37 0.75 1.44
## [316] 0.34 3.71 4.78 2.74 3.82 4.23 4.51 2.83 4.45 1.88 0.36 1.89 3.00 1.90 2.72
## [331] 2.35 2.62 3.81 4.58 3.04 0.37 0.72 3.03 2.43 3.49 2.51 0.70 0.46 1.79 0.80
## [346] 1.95 3.29 3.34 0.78 2.06 2.99 4.33 2.18 2.27 4.44 3.25 3.78 2.57 2.89 4.65
## [361] 2.29 1.31 1.38 3.62 2.07 4.88 2.75 3.65 0.97 0.58 2.02 0.99 3.07 4.22 2.46
## [376] 1.23 0.82 2.28 1.05 0.00 3.96 2.34 1.14 3.66 0.68 2.14 4.41 3.38 3.86 0.04
## [391] 0.79 4.38 4.93 4.61 3.11 1.54 2.73 3.89 1.51 4.54 2.19 3.58 0.07 1.10 0.94
## [406] 4.04 3.70 4.55 2.79 0.01 4.85 1.78 2.67 1.59 1.96 1.15 2.69 1.19 4.56 4.48
## [421] 3.60 4.27 4.91 2.95 3.18 0.91 0.31 2.39 0.60 2.38 0.96 3.10 0.66 1.04 4.63
## [436] 0.22 3.32 1.77 3.93 2.97 3.51 4.99 0.87 0.54 1.18 4.50 2.91 0.61 4.79 0.65
## [451] 2.65 1.37 0.32 1.13 2.68 2.98 1.22 3.05 2.94 3.59 4.26 4.43 1.81 2.11 4.00
## [466] 2.25 4.71 3.47 4.25 1.75 4.81 4.62 1.35 4.02 3.41 0.29 0.30 2.01 4.24 1.25
## [481] 2.32 4.60 0.41 2.77 3.13 1.27 0.06 3.50 3.84 1.97 3.01 4.05 4.97 4.66 2.54
## [496] 1.48 1.76 2.00 1.80 2.37 4.82
##
## $ExerciseInducedAngina
## [1] "Yes" "No"
## $Slope
## [1] "Downsloping" "Upsloping"
##
## $NumberOfMajorVessels
## [1] 1 2 0 3
##
## $Thalassemia
## [1] "Normal"
                           "Reversible defect" "Fixed defect"
##
## $PreviousHeartAttack
## [1] 0 1
##
## $StrokeHistory
## [1] 0 1
##
## $Residence
## [1] "Suburban" "Rural"
                             "Urban"
##
## $EmploymentStatus
```

```
## [1] "Retired"
                    "Unemployed" "Employed"
##
## $MaritalStatus
## [1] "Single"
                  "Married"
                              "Widowed" "Divorced"
## $Outcome
## [1] "No Heart Attack" "Heart Attack"
# Create a copy of the original dataset
HeartAttackClean <- HeartAttack</pre>
# Changle column responses to numbers to further clean data
HeartAttackClean$Gender <- as.integer(factor(HeartAttackClean$Gender,</pre>
                                              levels = c("Male", "Female"))) - 1L
# Male = 0, Female = 1
HeartAttackClean$Diet <- as.integer(factor(HeartAttackClean$Diet,</pre>
                                               levels = c("Unhealthy", "Healthy", "Moderate"))) - 1L
# Unhealthy = 0, Healthy = 1, Moderate = 2
HeartAttackClean$Ethnicity <- as.integer(factor(HeartAttackClean$Ethnicity,</pre>
                                              levels = c("Hispanic", "Asian", "Black", "Other", "White"))
# Hispanic = 0, Asian = 1, Black = 2, Other = 3, White = 4
HeartAttackClean$EducationLevel <- as.integer(factor(HeartAttackClean$EducationLevel,</pre>
                                              levels = c("High School", "College", "Postgraduate"))) - 1L
# High School = 0, College = 1, Postgrad = 2
HeartAttackClean$Medication <- as.integer(factor(HeartAttackClean$Medication,</pre>
                                              levels = c("Yes","No"))) - 1L
# Yes = 0, No = 1
HeartAttackClean$ChestPainType <- as.integer(factor(HeartAttackClean$ChestPainType,</pre>
                                              levels = c("Typical", "Atypical", "Non-anginal", "Asymtomat
# Typical = 0, Atypical = 1, Non-anginal = 2, Asymtomatic = 3
HeartAttackClean$ECGResults <- as.integer(factor(HeartAttackClean$ECGResults,</pre>
                                              levels = c("ST-T abnormality","LV hypertrophy", "Normal"))
\# ST-T abnormality = 0, LV hypertrophy = 1, Normal = 2
HeartAttackClean$ExerciseInducedAngina <- as.integer(factor(HeartAttackClean$ExerciseInducedAngina,
                                              levels = c("Yes","No"))) - 1L
# Yes = 0, No = 1
HeartAttackClean$Slope <- as.integer(factor(HeartAttackClean$Slope,</pre>
                                              levels = c("Downsloping", "Upsloping", "Flat"))) - 1L
# Downsloping = 0, Upsloping = 1, Flat = 2
HeartAttackClean$Thalassemia <- as.integer(factor(HeartAttackClean$Thalassemia,</pre>
                                               levels = c("Normal", "Reversible defect", "Fixed defect")))
# Normal = 0, Reversible defect = 1, Fixed defect = 2
HeartAttackClean$Residence <- as.integer(factor(HeartAttackClean$Residence,</pre>
                                              levels = c("Suburban", "Rural", "Urban"))) - 1L
# Suburban = 0, Rural = 1, Urban = 2
HeartAttackClean$EmploymentStatus <- as.integer(factor(HeartAttackClean$EmploymentStatus,
                                              levels = c("Retired", "Unemployed", "Employed"))) - 1L
# Retired = 0, Unemployed = 1, Employed = 2
HeartAttackClean$MaritalStatus <- as.integer(factor(HeartAttackClean$MaritalStatus,</pre>
                                               levels = c("Single", "Married", "Widowed", "Divorced"))) -
# Single = 0, Married = 1, Widowed = 2, Divroced = 3
HeartAttackClean$Outcome <- as.integer(factor(HeartAttackClean$Outcome,</pre>
                                              levels = c("No Heart Attack", "Heart Attack"))) - 1L
# No Heart Attack = 0, Heart Attack = 1
```

Check to make sure everything is changed and organized head(HeartAttackClean)

##		Age	Gender	Choles	sterol	Blood	Pressur	e HeartR	ate	BMI	Smoke	r Dia	betes	1
##	1	31	0		194		16	2	71	22.9	()	1	
##	2	69	0		208		14	3		33.9	:	L	1	
##	3	34	1		132		16	1	94	34.0	()	0	1
##	4	53	0		268		13	1	91	35.0	()	1	
##	5	57	1		203		14			30.1	()	1	
##	6	41	0		158		15			38.7)	1	
##		Нуре	ertensio	n Fami	lyHis	tory Ph	nysical	Activity	Al	cohol(Consum	otion	Diet	
##	1			0		0		6				0)
##	2			0		0		1				2	-	
##				1		1		1				3		
##				1		0		6				0		
##				0		0		4				1		
##	6			0		1		3				2	_	
##		Stre			•		Educat	ionLevel	Med	dicati		estPa	inTyp	
##	_		1		0	64510		0			0			0
##			6		1	91773		1			1			1
##			3			173550		1			1			2
##	_		3		0	43861		0			0			1
##			1		0	83404		0			0			0
##	6	пааг	4			113011		0			0	0 7		2
##	1	ECGI		махнеа			_	on Exerc	ıse.	Induce	edangii		_	
##			0		17		0.					0	0	
## ##			1 2		18 12		3. 0.					0	1 1	
##			0		10		0.					0	2	
##			0		12		5.					0	2	
##			1		15		4.					1	0	
##	U	Nıımh	_	orVass					art	A++acl	r Strol	_	-	Residence
##	1	IVUIII	cromaj	OI VCBL	1	Παταρρί	0	o v i o u bii c	ar or	nouaci)		CIIID	0	0
##	2				2		0			(0	0
##					0		0						0	1
##					0		1			-			0	0
##	5				0		2						0	1
##					2		1			(0	1
##		Emp]	oymentS	tatus	Marit	alStatı	ıs Outc	ome						
##	1	-	·	0			0	0						
								^						
##	2			1			1	0						
## ##				1			0	1						
	3													
##	3 4			0			0	1						