## Loan\_prediction\_problem\_v1.R

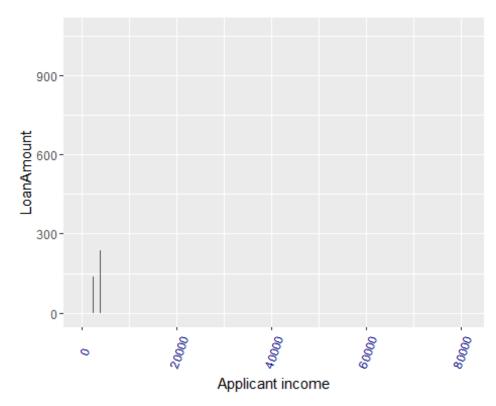
jas

Thu Sep 08 21:32:07 2016

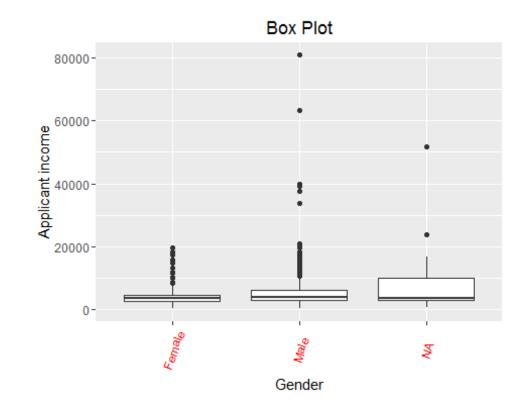
```
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 3.2.5
getwd()
## [1] "C:/Users/jas/Dropbox/Personal/New folder/Analytics Vidhya"
dir("C:/Users/ghumanja/Desktop/New folder/Analytics vidhya")
## character(0)
train <- read.csv('train_home loan.csv',na.strings=c("","NA"))</pre>
head(train)
##
      Loan ID Gender Married Dependents
                                             Education Self_Employed
## 1 LP001002
                Male
                           No
                                              Graduate
## 2 LP001003
                Male
                                        1
                          Yes
                                              Graduate
                                                                   No
## 3 LP001005
                Male
                          Yes
                                              Graduate
                                                                  Yes
## 4 LP001006
                Male
                          Yes
                                        0 Not Graduate
                                                                   No
## 5 LP001008
                Male
                           No
                                        0
                                              Graduate
                                                                   No
## 6 LP001011
                Male
                          Yes
                                        2
                                              Graduate
                                                                  Yes
     ApplicantIncome CoapplicantIncome LoanAmount Loan Amount Term
##
## 1
                 5849
                                       0
                                                 NA
                                                                  360
## 2
                4583
                                                128
                                    1508
                                                                  360
## 3
                 3000
                                       0
                                                 66
                                                                  360
                                                120
## 4
                2583
                                    2358
                                                                  360
## 5
                6000
                                                141
                                                                  360
                                    4196
## 6
                 5417
                                                267
                                                                  360
##
     Credit_History Property_Area Loan_Status
## 1
                             Urban
                   1
                                              Υ
## 2
                   1
                             Rural
                                              Ν
## 3
                   1
                                              Υ
                             Urban
                                              Υ
## 4
                   1
                             Urban
## 5
                                              Υ
                  1
                             Urban
## 6
                  1
                                              Υ
                             Urban
dim(train)
## [1] 614 13
typeof(train)
## [1] "list"
```

```
str(train)
## 'data.frame':
                   614 obs. of 13 variables:
## $ Loan ID
                       : Factor w/ 614 levels "LP001002", "LP001003", ...: 1 2 3
4 5 6 7 8 9 10 ...
                      : Factor w/ 2 levels "Female", "Male": 2 2 2 2 2 2 2 2 2
## $ Gender
2 2 ...
                      : Factor w/ 2 levels "No", "Yes": 1 2 2 2 1 2 2 2 2 2
## $ Married
## $ Dependents
                      : Factor w/ 4 levels "0", "1", "2", "3+": 1 2 1 1 1 3 1 4
3 2 ...
## $ Education
                      : Factor w/ 2 levels "Graduate", "Not Graduate": 1 1 1
2 1 1 2 1 1 1 ...
## $ Self Employed : Factor w/ 2 levels "No", "Yes": 1 1 2 1 1 1 1 1
## $ ApplicantIncome : int 5849 4583 3000 2583 6000 5417 2333 3036 4006
12841 ...
## $ CoapplicantIncome: num 0 1508 0 2358 0 ...
## $ LoanAmount
                      : int NA 128 66 120 141 267 95 158 168 349 ...
## $ Loan Amount Term : int 360 360 360 360 360 360 360 360 360 ...
## $ Credit_History : int 1 1 1 1 1 1 1 0 1 1 ...
## $ Property_Area
                     : Factor w/ 3 levels "Rural", "Semiurban", ...: 3 1 3 3 3
3 3 2 3 2 ...
## $ Loan Status : Factor w/ 2 levels "N","Y": 2 1 2 2 2 2 2 1 2 1 ...
table(is.na(train))
##
## FALSE TRUE
## 7833
          149
colSums(is.na(train))
##
            Loan ID
                               Gender
                                                Married
                                                               Dependents
##
                                   13
##
                        Self_Employed
                                        ApplicantIncome CoapplicantIncome
          Education
##
                     Loan Amount_Term
##
                                         Credit History
          LoanAmount
                                                            Property Area
##
                  22
                                   14
                                                     50
##
         Loan Status
##
summary(train)
##
        Loan ID
                     Gender
                               Married
                                          Dependents
                                                            Education
##
   LP001002: 1
                  Female:112
                               No :213
                                              :345
                                                     Graduate
                                                                 :480
## LP001003: 1
                  Male :489
                               Yes :398
                                              :102
                                                     Not Graduate:134
                                          1
              1
                  NA's : 13
                                              :101
## LP001005:
                               NA's: 3
                                          2
## LP001006:
              1
                                          3+ : 51
## LP001008:
                                          NA's: 15
## LP001011: 1
```

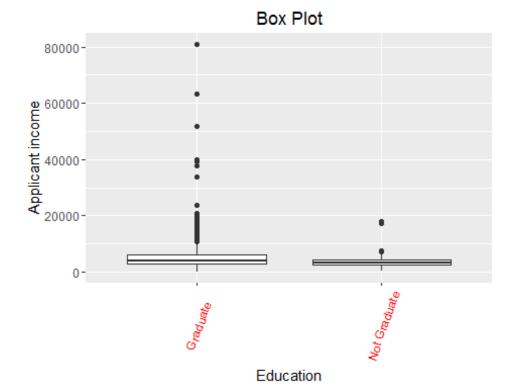
```
(Other) :608
##
##
    Self Employed ApplicantIncome CoapplicantIncome
                                                        LoanAmount
       :500
                          : 150
                                   Min.
                                                              : 9.0
##
                  Min.
                                                      Min.
##
    Yes: 82
                   1st Qu.: 2878
                                   1st Qu.:
                                                0
                                                      1st Qu.:100.0
    NA's: 32
                  Median : 3812
##
                                   Median : 1188
                                                      Median:128.0
##
                          : 5403
                  Mean
                                   Mean
                                           : 1621
                                                      Mean
                                                              :146.4
##
                   3rd Qu.: 5795
                                   3rd Qu.: 2297
                                                      3rd Ou.:168.0
##
                                                              :700.0
                  Max.
                          :81000
                                   Max.
                                           :41667
                                                      Max.
##
                                                      NA's
                                                              :22
                                          Property Area Loan Status
##
    Loan Amount Term Credit History
           : 12
                                                        N:192
##
    Min.
                      Min.
                             :0.0000
                                        Rural
                                                 :179
    1st Qu.:360
                      1st Qu.:1.0000
                                       Semiurban:233
                                                        Y:422
##
    Median :360
                                                 :202
##
                      Median :1.0000
                                       Urban
##
    Mean
           :342
                      Mean
                             :0.8422
##
    3rd Qu.:360
                      3rd Qu.:1.0000
##
    Max.
           :480
                      Max.
                             :1.0000
##
    NA's
           :14
                      NA's
                             :50
ggplot(data=train, aes(ApplicantIncome, LoanAmount))+geom_bar( stat =
"identity") +theme(axis.text.x = element_text(angle = 70, vjust = 0.5, color
= "navy")) + xlab("Applicant income")
## Warning: Removed 22 rows containing missing values (position_stack).
```



ggplot(data=train, aes(Gender,ApplicantIncome))+geom\_boxplot() +ggtitle("Box
Plot") + theme(axis.text.x = element\_text(angle = 70, vjust = 0.5, color =
"red")) + ylab("Applicant income")+xlab("Gender")



```
ggplot(data=train, aes(Education,ApplicantIncome))+geom_boxplot()
+ggtitle("Box Plot") + theme(axis.text.x = element_text(angle = 70, vjust =
0.5, color = "red")) + ylab("Applicant income")+xlab("Education")
```



```
summary(train$Loan_Status)

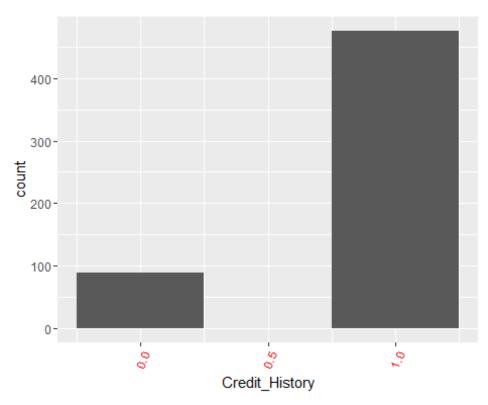
## N Y
## 192 422

table(train$Credit_History)

##
## 0 1
## 89 475

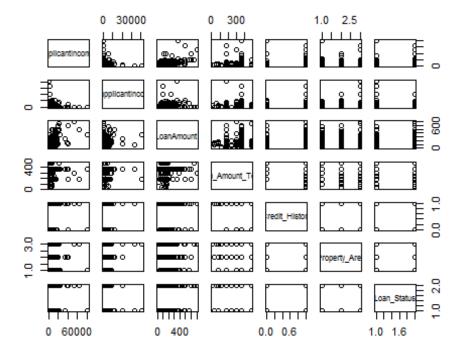
ggplot(train, aes(Credit_History))+geom_bar(width = 0.5) +theme(axis.text.x = element_text(angle = 70, vjust = 0.5, color = "red"))

## Warning: Removed 50 rows containing non-finite values (stat_count).
```

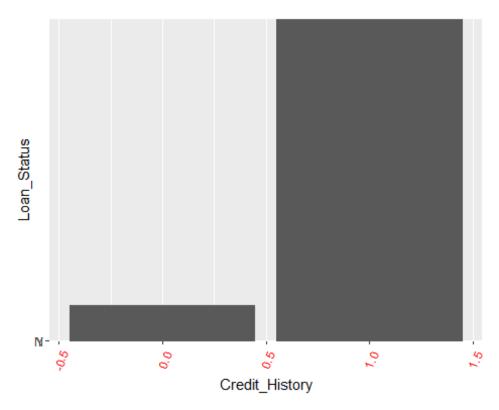


```
head(train)
      Loan ID Gender Married Dependents
                                              Education Self_Employed
##
## 1 LP001002
                 Male
                           No
                                               Graduate
                                                                    No
## 2 LP001003
                 Male
                                        1
                                               Graduate
                          Yes
                                                                    No
## 3 LP001005
                 Male
                          Yes
                                        0
                                               Graduate
                                                                   Yes
## 4 LP001006
                 Male
                          Yes
                                        0 Not Graduate
                                                                    No
                           No
                                        0
                                               Graduate
## 5 LP001008
                 Male
                                                                    No
## 6 LP001011
                 Male
                          Yes
                                        2
                                               Graduate
                                                                   Yes
##
     ApplicantIncome CoapplicantIncome LoanAmount Loan_Amount_Term
## 1
                                                  NA
                 5849
                                       0
                                                                   360
## 2
                 4583
                                    1508
                                                 128
                                                                   360
```

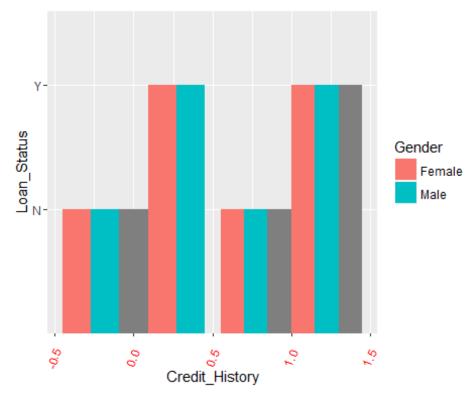
```
0
## 3
                  3000
                                                    66
                                                                      360
## 4
                                      2358
                                                   120
                                                                      360
                  2583
## 5
                  6000
                                                   141
                                                                      360
                                         0
## 6
                  5417
                                      4196
                                                                      360
                                                   267
##
     Credit_History Property_Area Loan_Status
## 1
                    1
                               Urban
                                                 Υ
## 2
                    1
                               Rural
                                                 Ν
                                                 Υ
## 3
                    1
                               Urban
## 4
                    1
                               Urban
                                                 Υ
## 5
                               Urban
                                                 Υ
                    1
                                                 Υ
## 6
                    1
                               Urban
pairs(train[,7:13])
```



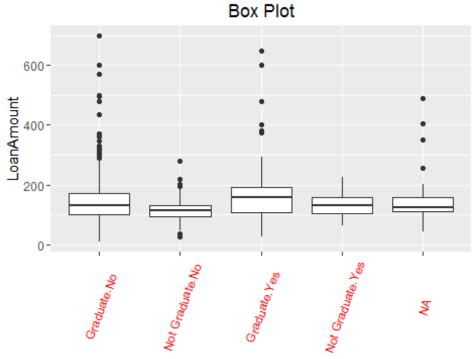
```
ggplot(train, aes(Credit_History,Loan_Status))+geom_bar(stat = "identity")
+theme(axis.text.x = element_text(angle = 70, vjust = 0.5, color = "red"))
## Warning: Removed 50 rows containing missing values (position_stack).
```



```
ggplot(train, aes(Credit_History,Loan_Status,fill=Gender))+geom_bar(position
= "dodge", stat = "identity") +theme(axis.text.x = element_text(angle = 70,
vjust = 0.2, color = "red"))
## Warning: Removed 50 rows containing missing values (geom_bar).
```



```
table(is.na(train))
##
## FALSE
          TRUE
   7833
           149
colSums(is.na(train))
##
             Loan ID
                                 Gender
                                                   Married
                                                                  Dependents
##
                                     13
                                                                           15
##
           Education
                          Self_Employed
                                          ApplicantIncome CoapplicantIncome
##
                                     32
                       Loan_Amount_Term
##
          LoanAmount
                                           Credit_History
                                                               Property_Area
##
                   22
                                     14
                                                        50
##
         Loan_Status
##
ggplot(data=train,
aes(interaction(Education, Self_Employed), LoanAmount))+geom_boxplot()
+ggtitle("Box Plot") + theme(axis.text.x = element_text(angle = 70, vjust =
0.5, color = "red"))
## Warning: Removed 22 rows containing non-finite values (stat_boxplot).
```

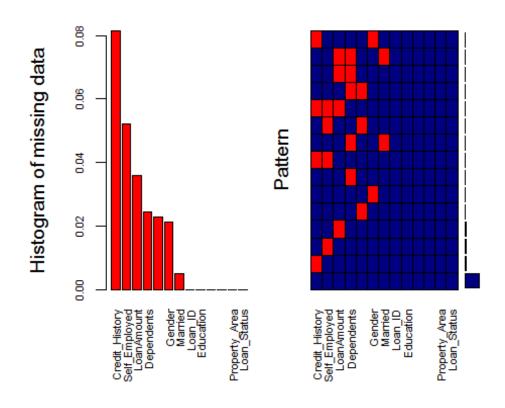


interaction(Education, Self\_Employed)

```
table(train$Self_Employed)
##
##
   No Yes
## 500 82
#Data imputation by mean, median etc#
#train$Self Employed[which(is.na(train$Self Employed))] <- "No"#</pre>
library(mice)
## Warning: package 'mice' was built under R version 3.2.5
## Loading required package: Rcpp
## Warning: package 'Rcpp' was built under R version 3.2.5
## mice 2.25 2015-11-09
md.pattern(train)
       Loan_ID Education ApplicantIncome CoapplicantIncome Property_Area
##
## 480
              1
                                         1
                                                             1
              1
                                         1
    12
                        1
                                                             1
                                                                            1
##
              1
                        1
                                         1
##
    10
                                                             1
                                                                           1
              1
                        1
                                         1
##
    25
                                                             1
                                                                            1
    19
              1
                        1
                                         1
                                                             1
                                                                            1
##
    12
              1
                        1
                                         1
                                                             1
                                                                            1
##
##
   43
                        1
                                                                            1
```

```
##
     2
##
     1
               1
                           1
                                             1
                                                                  1
                                                                                  1
##
     1
               1
                           1
                                             1
                                                                  1
                                                                                  1
     1
                                                                                  1
##
               1
                           1
                                             1
                                                                  1
##
     1
               1
                           1
                                             1
                                                                  1
                                                                                  1
##
     5
               1
                           1
                                             1
                                                                  1
                                                                                  1
     1
               1
                           1
                                             1
                                                                  1
                                                                                  1
##
##
     1
               1
                           1
                                             1
                                                                  1
                                                                                  1
##
               0
                           0
                                             0
                                                                  0
                                                                                  0
##
        Loan_Status Married Gender Loan_Amount_Term Dependents LoanAmount
## 480
                             1
                                     1
                   1
                                                         1
                                                                      1
                                                                                  1
##
    12
                   1
                             1
                                     0
                                                         1
                                                                      1
                                                                                  1
##
    10
                   1
                             1
                                     1
                                                         1
                                                                      0
                                                                                  1
                             1
##
    25
                   1
                                     1
                                                         1
                                                                      1
                                                                                  1
##
    19
                   1
                             1
                                     1
                                                         1
                                                                      1
                                                                                  0
                   1
##
    12
                             1
                                     1
                                                         0
                                                                     1
                                                                                  1
##
    43
                   1
                             1
                                     1
                                                         1
                                                                      1
                                                                                  1
                                                                                  1
##
     2
                   1
                             0
                                     1
                                                         1
                                                                      0
##
     1
                   1
                             1
                                     1
                                                         1
                                                                      0
                                                                                  0
##
                   1
                             1
                                     1
                                                                                  1
     1
                                                         0
                                                                      0
##
                   1
                             1
                                     1
                                                         0
                                                                                  1
     1
                                                                     1
##
     1
                   1
                             1
                                     0
                                                         1
                                                                      1
                                                                                  1
##
     5
                   1
                             1
                                     1
                                                         1
                                                                     1
                                                                                  1
##
     1
                   1
                             0
                                     1
                                                         1
                                                                      0
                                                                                  0
##
     1
                    1
                             1
                                                                     1
                                                                                  0
                                     1
                                                         1
##
                                    13
                                                        14
                                                                    15
                                                                                 22
##
        Self_Employed Credit_History
## 480
                      1
##
    12
                      1
                                       1
                                            1
##
    10
                      1
                                       1
                                            1
##
    25
                      0
                                       1
                                            1
##
    19
                      1
                                       1
                                            1
##
    12
                      1
                                       1
                                            1
    43
##
                      1
                                       0
                                            1
##
     2
                      1
                                       1
                                            2
##
     1
                      1
                                       1
                                            2
                                            2
##
     1
                      1
                                       1
##
     1
                      0
                                       1
                                            2
                                            2
##
     1
                      1
                                       0
##
     5
                      0
                                       0
                                            2
##
     1
                      1
                                       1
                                            3
##
     1
                      0
                                            3
                                       0
##
                     32
                                      50 149
library(VIM)
## Warning: package 'VIM' was built under R version 3.2.5
## Loading required package: colorspace
## Warning: package 'colorspace' was built under R version 3.2.5
```

```
## Loading required package: grid
## Loading required package: data.table
## Warning: package 'data.table' was built under R version 3.2.5
## VIM is ready to use.
   Since version 4.0.0 the GUI is in its own package VIMGUI.
##
             Please use the package to use the new (and old) GUI.
##
## Suggestions and bug-reports can be submitted at:
https://github.com/alexkowa/VIM/issues
##
## Attaching package: 'VIM'
## The following object is masked from 'package:datasets':
##
##
       sleep
#Plot missing values and check#
aggr_plot <- aggr(train, col=c('navyblue', 'red'), numbers=TRUE,</pre>
sortVars=TRUE, labels=names(train), cex.axis=.7, gap=3, ylab=c("Histogram of
missing data", "Pattern"))
## Warning in plot.aggr(res, ...): not enough horizontal space to display
## frequencies
```



```
##
    Variables sorted by number of missings:
##
             Variable
                             Count
##
       Credit History 0.081433225
        Self_Employed 0.052117264
##
##
           LoanAmount 0.035830619
           Dependents 0.024429967
##
##
     Loan_Amount_Term 0.022801303
##
               Gender 0.021172638
              Married 0.004885993
##
              Loan ID 0.000000000
##
##
            Education 0.000000000
##
      ApplicantIncome 0.000000000
    CoapplicantIncome 0.000000000
##
##
        Property Area 0.000000000
##
          Loan Status 0.000000000
labels(train)
## [[1]]
        "1"
                            "4"
                                               "7"
               "2"
                      "3"
                                  "5"
                                         "6"
                                                     "8"
                                                           "9"
                                                                  "10"
                                                                        "11"
     [1]
                                               "18"
         "12"
               "13"
                      "14"
                            "15"
                                  "16"
                                         "17"
                                                     "19"
                                                           "20"
                                                                  "21"
                                                                        "22"
##
    [12]
               "24"
                      "25"
                            "26"
                                         "28"
                                               "29"
                                                           "31"
                                                                  "32"
##
    [23] "23"
                                  "27"
                                                     "30"
                                                                        "33"
    [34] "34"
               "35"
                      "36"
                            "37"
                                  "38"
                                         "39"
                                               "40"
                                                     "41"
                                                           "42"
                                                                  "43"
                                                                        "44"
##
               "46"
    [45] "45"
                      "47"
                            "48"
                                  "49"
                                         "50"
                                               "51"
                                                     "52"
                                                           "53"
                                                                  "54"
                                                                        "55"
##
    [56] "56"
               "57"
                      "58"
                            "59"
                                         "61"
                                                     "63"
                                                           "64"
                                                                  "65"
                                                                        "66"
##
                                  "60"
                                               "62"
    [67] "67"
               "68"
                      "69"
                            "70"
                                  "71"
                                         "72"
                                               "73"
                                                     "74"
                                                            "75"
                                                                  "76"
                                                                        "77"
##
    [78] "78"
               "79"
                      "80"
                            "81"
                                  "82"
                                         "83"
                                               "84"
                                                     "85"
                                                           "86"
                                                                  "87"
                                                                        "88"
##
    [89] "89"
                                                                  "98"
               "90"
                                         "94"
                                               "95"
                      "91"
                            "92"
                                  "93"
                                                     "96"
                                                           "97"
                                                                        "99"
##
  [100] "100" "101" "102" "103" "104" "105" "106" "107" "108" "109" "110"
   [111] "111" "112" "113" "114" "115" "116" "117" "118" "119" "120" "121"
##
## [122] "122" "123" "124" "125" "126" "127" "128" "129" "130" "131" "132"
## [133] "133" "134" "135" "136" "137" "138" "139" "140" "141" "142" "143"
  [144] "144" "145" "146" "147" "148" "149" "150" "151" "152" "153" "154"
## [155] "155" "156" "157" "158" "159" "160" "161" "162" "163" "164" "165"
  [166] "166" "167" "168" "169" "170" "171" "172" "173" "174" "175" "176"
## [177] "177" "178" "179" "180" "181" "182" "183" "184" "185" "186" "187"
  [188] "188" "189" "190" "191" "192" "193" "194" "195" "196" "197" "198"
## [199] "199" "200" "201" "202" "203" "204" "205" "206" "207" "208" "209"
## [210] "210" "211" "212" "213" "214" "215" "216" "217" "218" "219" "220"
## [221] "221" "222" "223" "224" "225" "226" "227" "228" "229" "230" "231"
## [232] "232" "233" "234" "235" "236" "237" "238" "239" "240" "241" "242"
## [243] "243" "244" "245" "246" "247" "248" "249" "250" "251" "252" "253"
## [254] "254" "255" "256" "257" "258" "259" "260" "261" "262" "263" "264"
## [265] "265" "266" "267" "268" "269" "270" "271" "272" "273" "274" "275"
## [276] "276" "277" "278" "279" "280" "281" "282" "283" "284" "285" "286"
## [287] "287" "288" "289" "290" "291" "292" "293" "294" "295" "296" "297"
## [298] "298" "299" "300" "301" "302" "303" "304" "305" "306" "307" "308"
## [309] "309" "310" "311" "312" "313" "314" "315" "316" "317" "318" "319"
## [320] "320" "321" "322" "323" "324" "325" "326" "327" "328" "329" "330"
```

```
## [331] "331" "332" "333" "334" "335" "336" "337" "338" "339" "340" "341"
## [342] "342" "343" "344" "345" "346" "347" "348" "349" "350" "351" "352"
## [353] "353" "354" "355" "356" "357" "358" "359" "360" "361" "362" "363"
## [364] "364" "365" "366" "367" "368" "369" "370" "371" "372" "373" "374"
## [375] "375" "376" "377" "378" "379" "380" "381" "382" "383" "384" "385"
## [386] "386" "387" "388" "389" "390" "391" "392" "393" "394" "395" "396"
## [397] "397" "398" "399" "400" "401" "402" "403" "404" "405" "406" "407"
## [408] "408" "409" "410" "411" "412" "413" "414" "415" "416" "417" "418"
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## [[2]]
   [1] "Loan_ID"
##
                            "Gender"
                                                "Married"
   [4] "Dependents"
                            "Education"
                                                "Self Employed"
  [7] "ApplicantIncome"
                            "CoapplicantIncome" "LoanAmount"
## [10] "Loan Amount_Term"
                            "Credit_History"
                                                "Property_Area"
## [13] "Loan_Status"
#https://rpubs.com/corey_sparks/63681 . follow this link. Good#
train1 <- mice(data = train[,c("Gender", "Married",</pre>
"Dependents", "Education", "Self_Employed", "ApplicantIncome", "CoapplicantIncome
","LoanAmount","Loan_Amount_Term","Credit_History","Property_Area","Loan_Stat
us")], m=5,maxit=50,seed = 500)
##
##
    iter imp variable
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         3 Gender Married Dependents Self_Employed
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Loan Amount Term Credit History
         4 Gender Married Dependents Self_Employed LoanAmount
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## 18 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 18 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	C-16 51	1 4
## 18 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History ## 18 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	Jeii_Liiipioyed	LOGITAMOUTE
## 18 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History		
## 19 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 19 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	C-1C E1	1 4
## 19 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History ## 19 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	Jeii_Liiipioyed	LOGITAMOUTE
## 19 5 Gender Married Dependents	Self Employed	LoanAmount
Loan Amount Term Credit History	_ ' '	
## 20 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 20 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	6 16 5 1 1	
<pre>## 20 3 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	Self_Employed	LoanAmount
## 20 4 Gender Married Dependents	Self Employed	LoanAmount
Loan Amount Term Credit History	Jeii_Liiipioyed	LOGITAMOUTE
## 20 5 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History	_ ' '	
## 21 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 21 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	C-1 C 5	Lagradore 1
## 21 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History ## 21 4 Gender Married Dependents	Self Employed	LoanAmount
Loan Amount Term Credit History	Seri_cmproyed	LUGITAMUUTT

<pre>## 21 5 Gender Married Dependents Loan Amount Term Credit History</pre>	Self_Employed	LoanAmount
## 22 1 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 22 2 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 22 3 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 22 4 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 22 5 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 23 1 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 23 2 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 23 3 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 23 4 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 23 5 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 24 1 Gender Married Dependents Loan_Amount_Term Credit_History	Self_Employed	LoanAmount
## 24 2 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 24 3 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 24 4 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
<pre>## 24 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 24 5 Gender Married Dependents</pre>	Self_Employed Self_Employed	LoanAmount LoanAmount
<pre>## 24 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 24 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 1 Gender Married Dependents</pre>		
<pre>## 24 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 24 5 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	Self_Employed Self_Employed	LoanAmount LoanAmount
<pre>## 24 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 24 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 2 Gender Married Dependents</pre>	Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount
<pre>## 24 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 24 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 3 Gender Married Dependents</pre>	Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount
<pre>## 24 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 24 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 4 Gender Married Dependents</pre>	Self_Employed Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount
<pre>## 24 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 24 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 5 Gender Married Dependents</pre>	Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount
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## 24 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 24 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 25 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 26 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 26 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 26 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 26 3 Gender Married Dependents	Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount

## 26 5 Gender Married Dependents	Self_Employed	LoanAmount
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Loan Amount Term Credit History	Set1_Emptoyed	LUATIAIIIUUTTE
## 27 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History		
## 27 3 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History	,	
## 27 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 27 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 28 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 28 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	Colf Employed	1 a a a A m a +
## 28 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History ## 28 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Sell_Employed	LUATIAIIIUUTT
## 28 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	JCIT_LIIIPIOYCU	LoanAlloanc
## 29 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History		
## 29 2 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History	,	
## 29 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 29 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 29 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 30 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	C-1( []	l A
<pre>## 30 2 Gender Married Dependents Loan Amount Term Credit History</pre>	Self_Employed	LoanAmount
## 30 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	Seri_Liiipioyed	LoanAmount
## 30 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Jeri_Lmproyed	Louin anounc
## 30 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History		
## 31 1 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History	,	
## 31 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 31 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 31 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		

## 31 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	6 16 5 1 1	
## 32 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History ## 32 2 Gender Married Dependents	Colf Employed	Loan Amount
## 32 2 Gender Married Dependents Loan Amount Term Credit History	Self_Employed	LoanAmount
## 32 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Seri_Liiipioyeu	LoanAmount
## 32 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Jeii_Liiipioyed	LoanAmount
## 32 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Jeri_Emproyed	Loan, anounc
## 33 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	Jeri_Emproyed	Loan, anounc
## 33 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	3c11_1p10}cu	200117 1111001110
## 33 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History		
## 33 4 Gender Married Dependents	Self_Employed	LoanAmount
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## 33 5 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 34 1 Gender Married Dependents	Self Employed	LoanAmount
Loan Amount Term Credit History	_ ' '	
## 34 2 Gender Married Dependents	Self_Employed	LoanAmount
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## 34 3 Gender Married Dependents	Self_Employed	LoanAmount
	Self_Employed	LoanAmount
## 34 3 Gender Married Dependents	Self_Employed Self_Employed	LoanAmount LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	,	
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents</pre>	,	
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	Self_Employed	LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents</pre>	Self_Employed	LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	Self_Employed Self_Employed	LoanAmount LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents</pre>	Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	Self_Employed Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 3 Gender Married Dependents</pre>	Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 3 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 4 Gender Married Dependents</pre>	Self_Employed Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 4 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount
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<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 5 Gender Married Dependents Loan_Amount_Term Credit_History</pre>	Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount
<pre>## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 1 Gender Married Dependents</pre>	Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount
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## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 3 Gender Married Dependents Loan_Amount_Term Credit_History	Self_Employed	LoanAmount
## 34 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 34 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 4 Gender Married Dependents Loan_Amount_Term Credit_History ## 35 5 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 2 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 3 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 1 Gender Married Dependents Loan_Amount_Term Credit_History ## 36 3 Gender Married Dependents	Self_Employed	LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount LoanAmount

## 36 5 Gender Married Dependents	Self_Employed	LoanAmount
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Loan Amount Term Credit History	Sell_Employed	LUATIAIIIUUTTE
## 37 2 Gender Married Dependents	Self_Employed	LoanAmount
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## 37 3 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 37 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 37 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 38 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	C-16 E1	1 1
## 38 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History ## 38 3 Gender Married Dependents	Calf Employed	Loan Amount
<pre>## 38 3 Gender Married Dependents Loan Amount Term Credit History</pre>	Self_Employed	LoanAmount
## 38 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Sell_Liiipioyed	LUATIAIIIUUTTC
## 38 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Jeri_Lmproyed	Louin anounc
## 39 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History		
## 39 2 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 39 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 39 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 39 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	6 16 5 1 1	
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Loan_Amount_Term Credit_History ## 40 2 Gender Married Dependents	Self_Employed	LaanAmaunt
## 40 2 Gender Married Dependents Loan Amount Term Credit History	Sell_ciliployed	LUATIAIIIUUTT
## 40 3 Gender Married Dependents	Self_Employed	LoanAmount
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## 40 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History		
## 40 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	_ ' '	
## 41 1 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 41 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 41 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
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## 41 5 Gender Married Dependents	Self_Employed	LoanAmount
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## 42 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	3c11_1p10}cu	200111 1111001110
## 42 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History	,	
## 42 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 42 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 43 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
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## 43 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History ## 43 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Sell_Employed	LUATIAIIIUUTT
## 43 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	JCIT_LIIIPIOYCU	LoanAlloanc
## 44 1 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History		
## 44 2 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History	,	
## 44 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 44 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 44 5 Gender Married Dependents	Self_Employed	LoanAmount
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## 45 1 Gender Married Dependents	Self_Employed	LoanAmount
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<pre>## 45 2 Gender Married Dependents Loan Amount Term Credit History</pre>	Self_Employed	LoanAmount
## 45 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Seri_Liiipioyed	LoanAmount
## 45 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	Jeri_Emproyed	Louin anounc
## 45 5 Gender Married Dependents	Self_Employed	LoanAmount
Loan Amount Term Credit History	_ ' '	
## 46 1 Gender Married Dependents	Self Employed	LoanAmount
Loan_Amount_Term Credit_History	,	
## 46 2 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 46 3 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		
## 46 4 Gender Married Dependents	Self_Employed	LoanAmount
Loan_Amount_Term Credit_History		

```
46 5 Gender Married Dependents Self Employed LoanAmount
Loan Amount Term Credit History
         1 Gender Married Dependents Self Employed LoanAmount
Loan Amount Term Credit History
         2 Gender Married Dependents Self_Employed LoanAmount
##
    47
Loan_Amount_Term Credit_History
         3 Gender Married Dependents
                                       Self Employed LoanAmount
Loan Amount Term Credit History
    47
         4 Gender Married Dependents
                                       Self_Employed LoanAmount
Loan Amount Term Credit History
         5 Gender Married Dependents Self_Employed LoanAmount
Loan Amount Term Credit History
         1 Gender Married Dependents Self Employed LoanAmount
Loan_Amount_Term Credit_History
##
         2 Gender Married Dependents
                                       Self_Employed LoanAmount
Loan Amount Term Credit History
                                       Self Employed LoanAmount
         3 Gender Married Dependents
Loan Amount Term Credit History
                                       Self Employed LoanAmount
##
         4 Gender Married Dependents
Loan Amount Term Credit History
         5 Gender Married Dependents Self Employed LoanAmount
Loan Amount Term Credit History
         1 Gender Married Dependents Self_Employed LoanAmount
Loan_Amount_Term Credit_History
         2 Gender Married Dependents
                                       Self Employed LoanAmount
Loan Amount Term Credit History
         3 Gender Married Dependents
                                       Self Employed LoanAmount
Loan Amount Term Credit History
         4 Gender Married Dependents Self_Employed LoanAmount
Loan Amount Term Credit History
         5 Gender Married Dependents Self_Employed LoanAmount
Loan Amount Term Credit History
         1 Gender Married Dependents
                                       Self Employed LoanAmount
Loan Amount Term Credit History
         2 Gender Married Dependents
                                       Self Employed LoanAmount
Loan Amount Term Credit History
         3 Gender Married Dependents Self_Employed LoanAmount
##
    50
Loan Amount Term Credit History
         4 Gender Married Dependents Self_Employed LoanAmount
Loan Amount Term Credit History
         5 Gender Married Dependents Self Employed LoanAmount
Loan Amount Term Credit History
summary(train1)
## Multiply imputed data set
## Call:
## mice(data = train[, c("Gender", "Married", "Dependents", "Education",
      "Self_Employed", "ApplicantIncome", "CoapplicantIncome",
##
      "LoanAmount", "Loan_Amount_Term", "Credit_History", "Property_Area",
```

```
"Loan Status")], m = 5, maxit = 50, seed = 500)
## Number of multiple imputations: 5
## Missing cells per column:
##
               Gender
                                  Married
                                                  Dependents
                                                                       Education
##
                    13
                                        3
                                                           15
                                                                                0
##
       Self_Employed
                         ApplicantIncome CoapplicantIncome
                                                                      LoanAmount
##
                    32
                                                                               22
##
    Loan_Amount_Term
                          Credit_History
                                               Property_Area
                                                                     Loan Status
##
##
   Imputation methods:
##
               Gender
                                  Married
                                                  Dependents
                                                                       Education
##
             "logreg"
                                 "logreg"
                                                    "polyreg"
##
       Self_Employed
                         ApplicantIncome CoapplicantIncome
                                                                      LoanAmount
             "logreg"
##
                                                                            "pmm"
##
    Loan Amount Term
                          Credit_History
                                               Property Area
                                                                     Loan_Status
                "pmm"
##
                                    "mmd"
##
   VisitSequence:
##
                                Married
                                                               Self Employed
              Gender
                                               Dependents
##
##
          LoanAmount Loan_Amount_Term
                                           Credit_History
##
                   8
                                      9
## PredictorMatrix:
##
                       Gender Married Dependents Education Self_Employed
## Gender
                            0
                                     1
                                                 1
                                                                            1
                            1
                                     0
                                                 1
                                                            1
                                                                            1
## Married
## Dependents
                            1
                                     1
                                                 0
                                                            1
                                                                            1
## Education
                            0
                                     0
                                                 0
                                                            0
                                                                            0
## Self_Employed
                            1
                                     1
                                                            1
                                                                            0
                                                 1
## ApplicantIncome
                            0
                                     0
                                                 0
                                                            0
                                                                            0
                                                                            0
## CoapplicantIncome
                            0
                                     0
                                                 0
                                                            0
                            1
                                     1
                                                            1
                                                                            1
## LoanAmount
                                                 1
                            1
                                     1
                                                 1
                                                            1
                                                                            1
## Loan Amount Term
## Credit_History
                            1
                                     1
                                                 1
                                                            1
                                                                            1
                            0
                                     0
                                                            0
                                                                            0
## Property Area
                                                 0
                                     0
                                                            0
## Loan Status
                            0
                                                 0
                                                                            0
##
                       ApplicantIncome CoapplicantIncome LoanAmount
## Gender
                                      1
                                                          1
                                                                      1
## Married
                                      1
                                                          1
                                                                      1
                                      1
                                                          1
                                                                      1
## Dependents
## Education
                                      0
                                                          0
                                                                      0
## Self Employed
                                      1
                                                          1
                                                                      1
## ApplicantIncome
                                      0
                                                          0
                                                                      0
                                      0
## CoapplicantIncome
                                                          0
                                                                      0
                                      1
                                                          1
                                                                      0
## LoanAmount
                                      1
                                                          1
                                                                      1
## Loan Amount Term
## Credit History
                                      1
                                                          1
                                                                      1
## Property_Area
                                      0
                                                          0
                                                                      0
                                      0
                                                          0
                                                                      0
## Loan_Status
##
                       Loan Amount Term Credit History Property Area
## Gender
```

```
## Married
                                     1
## Dependents
                                                    1
                                                                   1
                                     0
                                                    0
                                                                   0
## Education
## Self Employed
                                     1
                                                    1
                                                                   1
                                     0
## ApplicantIncome
                                                    0
                                                                   0
                                     0
                                                                   0
## CoapplicantIncome
                                                    0
                                     1
## LoanAmount
                                                    1
                                                                   1
                                     0
                                                                   1
## Loan Amount Term
                                                    1
                                     1
                                                    0
                                                                   1
## Credit_History
## Property Area
                                     0
                                                    0
                                                                   0
                                                    0
                                                                   0
## Loan Status
##
                     Loan Status
## Gender
                                1
## Married
                                1
## Dependents
                                1
                                0
## Education
## Self_Employed
                                1
## ApplicantIncome
                                0
## CoapplicantIncome
                                0
## LoanAmount
                                1
## Loan Amount Term
                                1
                                1
## Credit_History
## Property_Area
                                0
## Loan Status
## Random generator seed value:
#This is to see the variability in the 5 different imputations for each
outcome#
names(train)
## [1] "Loan_ID"
                             "Gender"
                                                  "Married"
                             "Education"
## [4] "Dependents"
                                                 "Self Employed"
## [7] "ApplicantIncome"
                            "CoapplicantIncome" "LoanAmount"
## [10] "Loan Amount Term"
                             "Credit History"
                                                 "Property Area"
## [13] "Loan_Status"
train2 <- with(data=train1</pre>
,exp=lm(Loan Status~Gender+Married+Dependents+Education+Self Employed+Applica
ntIncome+CoapplicantIncome+LoanAmount+Loan Amount Term+Credit History+Propert
y Area))
## Warning in model.response(mf, "numeric"): using type = "numeric" with a
## factor response will be ignored
## Warning in Ops.factor(y, z$residuals): '-' not meaningful for factors
## Warning in model.response(mf, "numeric"): using type = "numeric" with a
## factor response will be ignored
## Warning in Ops.factor(y, z$residuals): '-' not meaningful for factors
```

```
## Warning in model.response(mf, "numeric"): using type = "numeric" with a
## factor response will be ignored
## Warning in Ops.factor(y, z$residuals): '-' not meaningful for factors
## Warning in model.response(mf, "numeric"): using type = "numeric" with a
## factor response will be ignored
## Warning in Ops.factor(y, z$residuals): '-' not meaningful for factors
## Warning in model.response(mf, "numeric"): using type = "numeric" with a
## factor response will be ignored
## Warning in Ops.factor(y, z$residuals): '-' not meaningful for factors
train2
## call :
## with.mids(data = train1, expr = lm(Loan Status ~ Gender + Married +
       Dependents + Education + Self Employed + ApplicantIncome +
       CoapplicantIncome + LoanAmount + Loan Amount Term + Credit History +
##
##
       Property Area))
##
## call1 :
## mice(data = train[, c("Gender", "Married", "Dependents", "Education",
       "Self_Employed", "ApplicantIncome", "CoapplicantIncome",
##
       "LoanAmount", "Loan_Amount_Term", "Credit_History", "Property_Area",
##
       "Loan_Status")], m = 5, maxit = 50, seed = 500)
##
##
## nmis :
              Gender
                               Married
##
                                               Dependents
                                                                  Education
##
                  13
##
       Self_Employed
                       ApplicantIncome CoapplicantIncome
                                                                  LoanAmount
##
                  32
                                                                          22
##
    Loan Amount Term
                        Credit_History
                                            Property_Area
                                                                 Loan Status
##
                                     50
                                                                           0
##
## analyses :
## [[1]]
##
## Call:
## lm(formula = Loan_Status ~ Gender + Married + Dependents + Education +
       Self Employed + ApplicantIncome + CoapplicantIncome + LoanAmount +
##
       Loan Amount_Term + Credit History + Property Area)
##
## Coefficients:
##
         (Intercept)
                                Gender2
                                                   Married2
##
           1.074e+00
                              5.169e-04
                                                  9.230e-02
##
         Dependents2
                            Dependents3
                                                Dependents4
##
          -6.223e-02
                              2.546e-02
                                                 -1.649e-03
                         Self_Employed2
##
          Education2
                                            ApplicantIncome
```

```
##
          -4.773e-02
                               1.647e-02
                                                    9.584e-07
## CoapplicantIncome
                              LoanAmount
                                            Loan Amount Term
##
          -9.241e-06
                              -2.444e-04
                                                   -1.381e-04
##
      Credit History
                          Property Area2
                                              Property Area3
##
           7.127e-01
                               1.255e-01
                                                    3.108e-02
##
##
##
  [[2]]
##
## Call:
  lm(formula = Loan Status ~ Gender + Married + Dependents + Education +
##
       Self Employed + ApplicantIncome + CoapplicantIncome + LoanAmount +
##
##
       Loan Amount Term + Credit History + Property Area)
##
  Coefficients:
##
##
         (Intercept)
                                  Gender2
                                                     Married2
##
           1.110e+00
                              -3.430e-03
                                                    8.810e-02
##
         Dependents2
                             Dependents3
                                                 Dependents4
##
          -6.417e-02
                               2.507e-02
                                                   -5.733e-03
##
          Education2
                          Self_Employed2
                                             ApplicantIncome
##
                              -2.457e-03
          -6.153e-02
                                                    1.914e-06
##
  CoapplicantIncome
                              LoanAmount
                                            Loan Amount Term
##
          -9.059e-06
                              -3.522e-04
                                                   -1.549e-04
##
      Credit History
                          Property_Area2
                                              Property Area3
##
           6.963e-01
                               1.311e-01
                                                    3.609e-02
##
##
## [[3]]
##
## Call:
   lm(formula = Loan_Status ~ Gender + Married + Dependents + Education +
##
       Self Employed + ApplicantIncome + CoapplicantIncome + LoanAmount +
##
       Loan Amount_Term + Credit_History + Property_Area)
##
## Coefficients:
##
         (Intercept)
                                  Gender2
                                                     Married2
                               4.929e-03
                                                    9.237e-02
##
           1.063e+00
##
         Dependents2
                             Dependents3
                                                 Dependents4
##
          -6.197e-02
                               2.607e-02
                                                    6.639e-03
##
          Education2
                          Self_Employed2
                                             ApplicantIncome
##
          -5.172e-02
                               2.928e-02
                                                    6.681e-07
  CoapplicantIncome
                              LoanAmount
                                            Loan_Amount_Term
##
          -1.084e-05
                              -2.287e-04
                                                   -1.527e-04
##
                          Property Area2
      Credit_History
                                              Property_Area3
                               1.377e-01
##
           7.121e-01
                                                   4.836e-02
##
##
## [[4]]
##
## Call:
```

```
## lm(formula = Loan Status ~ Gender + Married + Dependents + Education +
##
       Self Employed + ApplicantIncome + CoapplicantIncome + LoanAmount +
##
       Loan Amount Term + Credit History + Property Area)
##
## Coefficients:
##
         (Intercept)
                                 Gender2
                                                    Married2
                               4.420e-03
                                                   9.211e-02
##
           1.090e+00
##
         Dependents2
                             Dependents3
                                                 Dependents4
##
          -6.812e-02
                               2.989e-02
                                                  -2.332e-03
##
          Education2
                          Self_Employed2
                                            ApplicantIncome
##
          -6.468e-02
                               5.659e-03
                                                   2.394e-06
## CoapplicantIncome
                              LoanAmount
                                            Loan Amount Term
##
                              -4.119e-04
          -8.495e-06
                                                  -1.360e-04
##
      Credit_History
                          Property_Area2
                                             Property_Area3
           7.117e-01
                               1.311e-01
                                                   2.856e-02
##
##
##
## [[5]]
##
## Call:
  lm(formula = Loan Status ~ Gender + Married + Dependents + Education +
##
##
       Self Employed + ApplicantIncome + CoapplicantIncome + LoanAmount +
##
       Loan_Amount_Term + Credit_History + Property_Area)
##
## Coefficients:
##
         (Intercept)
                                 Gender2
                                                    Married2
##
           1.071e+00
                               5.334e-03
                                                   9.830e-02
##
         Dependents2
                             Dependents3
                                                 Dependents4
                                                   7.995e-03
##
          -5.843e-02
                               2.996e-02
##
          Education2
                          Self Employed2
                                            ApplicantIncome
                              -4.980e-03
##
          -6.515e-02
                                                   2.106e-06
## CoapplicantIncome
                              LoanAmount
                                            Loan Amount Term
##
          -9.034e-06
                              -3.986e-04
                                                  -1.062e-04
##
      Credit History
                          Property_Area2
                                             Property Area3
##
           7.160e-01
                               1.295e-01
                                                   3.210e-02
#Pooling or combining results from all the 5 iterations#
train3 <- pool(train2)</pre>
## Warning in Ops.factor(r, 2): '^' not meaningful for factors
## Warning in Ops.factor(r, 2): '^' not meaningful for factors
## Warning in Ops.factor(r, 2): '^' not meaningful for factors
## Warning in Ops.factor(r, 2): '^' not meaningful for factors
## Warning in Ops.factor(r, 2): '^' not meaningful for factors
## Warning in Ops.factor(r, 2): '^' not meaningful for factors
```

```
print(train3)
## Call: pool(object = train2)
## Pooled coefficients:
##
         (Intercept)
                                Gender2
                                                  Married2
                                                                  Dependents2
        1.081481e+00
##
                           2.353873e-03
                                              9.263618e-02
                                                                -6.298524e-02
##
         Dependents3
                            Dependents4
                                                Education2
                                                               Self Employed2
##
                                             -5.816442e-02
                                                                 8.793945e-03
        2.729063e-02
                           9.838884e-04
##
     ApplicantIncome CoapplicantIncome
                                                LoanAmount
                                                             Loan Amount Term
##
        1.608077e-06
                          -9.333187e-06
                                             -3.271587e-04
                                                                -1.375821e-04
##
      Credit History
                         Property_Area2
                                            Property_Area3
##
        7.097754e-01
                           1.309825e-01
                                              3.523838e-02
##
##
  Fraction of information about the coefficients missing due to nonresponse:
##
         (Intercept)
                                Gender2
                                                  Married2
                                                                  Dependents2
##
                   NA
                                      NA
                                                         NA
                                                                           NA
##
         Dependents3
                                                Education2
                                                               Self_Employed2
                            Dependents4
##
                  NA
                                                         NA
##
     ApplicantIncome CoapplicantIncome
                                                LoanAmount
                                                             Loan Amount Term
##
                   NA
                                                         NA
                                                                           NA
##
      Credit_History
                         Property_Area2
                                            Property_Area3
##
                   NA
```