#load the csv file and provide the name as lv  
  
#loadrequiredlibrariesforpreprocessing(TRUE)  
setwd('/Users/dsing001/myr/R\_generic\_code/myrpreprocess/R')  
library(ggplot2)  
library(discretization)

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

library(randomForest)

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

## randomForest 4.6-10  
## Type rfNews() to see new features/changes/bug fixes.

library(ROCR)

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

## Loading required package: gplots

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

## KernSmooth 2.23 loaded  
## Copyright M. P. Wand 1997-2009  
##   
## Attaching package: 'gplots'  
##   
## The following object is masked from 'package:stats':  
##   
## lowess

library(myrpreprocess)  
library(unbalanced)

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

## Loading required package: FNN

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

## Loading required package: RANN

# Select any file name and class column  
filename <- 'LendingClub.csv'  
header <- TRUE  
filename

## [1] "LendingClub.csv"

clscol='Class'  
  
#run prelim processing  
X <- read.csv(file=filename,header=header)  
clscolpos <- match(clscol,colnames(X))  
X <- X[complete.cases(X),]  
X <- moveclasscolintheend(X,clscolpos)  
X[,clscolpos] <- as.character(X[,clscolpos])  
  
X[X[,clscolpos]=='Creditworthy',clscolpos] <- '0'  
X[X[,clscolpos]=='Uncreditworthy',clscolpos] <- '1'  
X[,clscolpos] <- as.factor(as.numeric(X[,clscol]))  
  
  
# Now convert these columns to factor columns and in fact ordered factor columns  
numcols\_to\_be\_converted <- c(3,8,11,12,13,14,17,18)  
X1 <- convert\_num\_field\_to\_ordered\_fact\_cols(X,numcols\_to\_be\_converted)  
X[,numcols\_to\_be\_converted] <- X1  
# see whether new cols are converted to fact columns.  
str(X)

## 'data.frame': 24724 obs. of 21 variables:  
## $ Loan.Amount : int 25000 7000 1200 10800 7500 3000 4000 5600 3200 4000 ...  
## $ Loan.Term : Factor w/ 2 levels "36 Months","60 Months": 1 1 1 1 1 1 1 1 1 1 ...  
## $ Employment.Length : Factor w/ 5 levels "1","2","3","4",..: 1 1 5 3 2 2 1 2 3 1 ...  
## $ Home.Ownership : Factor w/ 5 levels "MORTGAGE","NOne",..: 5 5 4 5 5 1 1 5 5 1 ...  
## $ Annual.Income : num 85000 65000 54000 32000 85000 80800 148000 45000 54000 60000 ...  
## $ Loan.Purpose : Factor w/ 15 levels "0","Car","Credit Card",..: 4 3 4 4 4 3 3 4 4 2 ...  
## $ Address.State : Factor w/ 51 levels "","AK","AL","AR",..: 6 35 44 8 6 44 44 22 21 24 ...  
## $ Debt.To.Income.Ratio : Factor w/ 4 levels "1","2","3","4": 4 3 1 3 2 3 4 1 1 2 ...  
## $ No..Delinquencies.In.Last.2.Years: Factor w/ 10 levels "Eight","Five",..: 5 5 5 5 5 6 5 5 5 5 ...  
## $ Earliest.Credit.Line.Opened : num 34380 36821 31068 35411 36846 ...  
## $ FICO.Credit.Score : Factor w/ 7 levels "1","2","3","4",..: 4 3 2 2 4 1 4 1 5 4 ...  
## $ No..Inquiries.In.Last.6.Months : Factor w/ 4 levels "1","2","3","4": 1 1 1 2 2 1 1 1 1 1 ...  
## $ Months.Since.Last.Delinquency : Factor w/ 13 levels "1","10","11",..: 1 1 3 13 1 8 1 12 1 1 ...  
## $ No..Of.Credit.Lines : Factor w/ 10 levels "1","10","2","3",..: 4 4 4 4 3 4 4 4 4 4 ...  
## $ No..Adverse.Public.Records : Factor w/ 5 levels "Four","None",..: 2 2 2 2 2 2 2 3 2 2 ...  
## $ Total.Credit.Balance : int 28854 33623 2584 3511 33667 4740 50000 3839 3198 24220 ...  
## $ Use.Of.Credit.Line : Factor w/ 15 levels "1","10","11",..: 15 5 15 12 4 15 15 5 15 3 ...  
## $ Total.Number.Of.Credit.Lines : Factor w/ 15 levels "1","10","11",..: 12 1 9 12 8 9 9 8 8 11 ...  
## $ Loan.Application.Description : int 308 71 748 403 293 487 363 340 141 824 ...  
## $ No..Of.Public.Record.Bankruptcies: Factor w/ 3 levels "None","One","Two": 1 1 1 1 1 1 1 1 1 1 ...  
## $ Class : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 2 1 2 ...

#Now fix all the issues you want to with your data which you might have got idea from Pass\_1 as well as from your own analytics.  
  
# Now break the data into 3 parts, train data, test data and valid data as feature selection should always be done on train data and never on test and valid data.  
#valid ratio 0.3 means it will be 30 % of data remaning after test\_ratio has been splitted. so if test\_ratio is 0.3 and valid\_ratio is 0.3 valid data will be (1-0.3)\*0.3 i.e. 0.21 of total data passed  
dt\_set <- generte\_train\_test\_validset(X,test\_ratio=0.3,valid\_ratio=0.3)

## [1] 24724 21  
## [1] "0" "1"  
## [1] "i m here 1"  
## [1] 20243  
## [1] 18266 16105 4017 12138 3976 6447 11985 5949 18861 4119 10865  
## [12] 16626 15612 19936 11309 5705 5011 12908 386 9862 5944 1749  
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## [45] 16904 19780 6867 16532 11633 2835 13634 12932 18777 11203 9105  
## [56] 6574 14742 14733 2224 2851 19396 15713 13941 16952 10123 2118  
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## [925] 1921 354 3057 1282 398 1765 878 458 7 721 1976 3086 1847 2253  
## [939] 2994 1301 2906  
## [1] "i m here 2"  
## [1] "valid set is generated"

train\_data <- dt\_set$train\_data  
test\_data <- dt\_set$test\_data  
valid\_data <- dt\_set$valid\_data  
  
#write the train\_data,test\_data and valid\_data now to file. Use this in 3rd step of modelling.  
#however, you can split them again but make sure that the feature selection part is run once or if you want to repeat it on same data  
#to be honest :) .  
  
write.csv(train\_data,'fs\_train\_data.csv',row.names=FALSE)  
write.csv(train\_data,'fs\_test\_data.csv',row.names=FALSE)  
write.csv(train\_data,'fs\_validdata.csv',row.names=FALSE)  
  
# Now remove the test and valid data  
  
rm(valid\_data)  
rm(test\_data)  
rm(X)  
  
pvals <- reduce\_levels\_for\_unord\_fact\_cols(train\_data)

## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column Loan.Term"  
## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column Employment.Length"  
## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column Home.Ownership"

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## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column Loan.Purpose"

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## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column Address.State"  
## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column Debt.To.Income.Ratio"

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## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column No..Delinquencies.In.Last.2.Years"  
## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column FICO.Credit.Score"  
## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column No..Inquiries.In.Last.6.Months"

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## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column No..Of.Credit.Lines"

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## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column No..Adverse.Public.Records"  
## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column Use.Of.Credit.Line"

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## [1] "print the p values for factor levels which are independent.These are order by p values. It is for column Total.Number.Of.Credit.Lines"

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print(pvals)

## col lvl1  
## 1 NULL NULL  
## 2 Loan.Term 36 Months  
## 8 Employment.Length 2  
## 21 Employment.Length 1  
## 4 Employment.Length 1  
## 11 Employment.Length 4  
## 3 Employment.Length 1  
## 10 Employment.Length 3  
## 9 Employment.Length 3  
## 6 Employment.Length 2  
## 7 Employment.Length 2  
## 5 Employment.Length 1  
## 22 Home.Ownership MORTGAGE  
## 81 Home.Ownership NOne  
## 51 Home.Ownership MORTGAGE  
## 41 Home.Ownership MORTGAGE  
## 101 Home.Ownership OTHER  
## 91 Home.Ownership OTHER  
## 111 Home.Ownership OWN  
## 31 Home.Ownership MORTGAGE  
## 61 Home.Ownership NOne  
## 71 Home.Ownership NOne  
## 410 Loan.Purpose 0  
## 76 Loan.Purpose House  
## 24 Loan.Purpose Car  
## 811 Loan.Purpose Major Purchase  
## 311 Loan.Purpose Credit Card  
## 221 Loan.Purpose Car  
## 30 Loan.Purpose Credit Card  
## 104 Loan.Purpose Small Business  
## 94 Loan.Purpose Moving  
## 79 Loan.Purpose Major Purchase  
## 35 Loan.Purpose Credit Card  
## 12 Loan.Purpose 0  
## 59 Loan.Purpose Educationalal  
## 17 Loan.Purpose Car  
## 911 Loan.Purpose Medical  
## 66 Loan.Purpose Home Improvement  
## 89 Loan.Purpose Medical  
## 100 Loan.Purpose Other  
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## 45 Loan.Purpose Debt Consolidation  
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## 611 Loan.Purpose Educationalal  
## 80 Loan.Purpose Major Purchase  
## 19 Loan.Purpose Car  
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## 96 Loan.Purpose Moving  
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## 99 Loan.Purpose Other  
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## 48 Loan.Purpose Debt Consolidation  
## 50 Loan.Purpose Debt Consolidation  
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## 36 Loan.Purpose Credit Card  
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## 721 Address.State KS  
## 8410 Address.State AK  
## 1245 Address.State TN  
## 5210 Address.State AK  
## 5810 Address.State AK  
## 1234 Address.State SD  
## 750 Address.State KY  
## 775 Address.State KY  
## 5610 Address.State AK  
## 1177 Address.State OK  
## 6510 Address.State AK  
## 933 Address.State MN  
## 983 Address.State MS  
## 1188 Address.State OR  
## 1095 Address.State NJ  
## 1195 Address.State OR  
## 548 Address.State HI  
## 212 Address.State AZ  
## 209 Address.State AZ  
## 840 Address.State MA  
## 1265 Address.State VA  
## 1203 Address.State PA  
## 919 Address.State MI  
## 5710 Address.State AK  
## 1183 Address.State OK  
## 8910 Address.State AK  
## 1067 Address.State NH  
## 785 Address.State LA  
## 1078 Address.State NH  
## 9410 Address.State AK  
## 892 Address.State ME  
## 801 Address.State LA  
## 996 Address.State MS  
## 527 Address.State GA  
## 722 Address.State KS  
## 9310 Address.State AK  
## 278 Address.State CA  
## 493 Address.State FL  
## 272 Address.State CA  
## 768 Address.State KY  
## 1149 Address.State NY  
## 952 Address.State MO  
## 490 Address.State FL  
## 532 Address.State GA  
## 1229 Address.State SC  
## 1113 Address.State NM  
## 745 Address.State KS  
## 468 Address.State FL  
## 876 Address.State ME  
## 1209 Address.State PA  
## 228 Address.State AZ  
## 1179 Address.State OK  
## 487 Address.State FL  
## 1172 Address.State OK  
## 782 Address.State LA  
## 1036 Address.State NC  
## 222 Address.State AZ  
## 478 Address.State FL  
## 1158 Address.State OH  
## 414 Address.State DC  
## 1151 Address.State NY  
## 871 Address.State ME  
## 825 Address.State MA  
## 764 Address.State KY  
## 1027 Address.State NC  
## 383 Address.State DC  
## 1090 Address.State NJ  
## 1042 Address.State NC  
## 147 Address.State AL  
## 1155 Address.State NY  
## 832 Address.State MA  
## 1235 Address.State SD  
## 116 Address.State AL  
## 734 Address.State KS  
## 936 Address.State MN  
## 895 Address.State ME  
## 1190 Address.State OR  
## 1115 Address.State NM  
## 884 Address.State ME  
## 1080 Address.State NH  
## 1197 Address.State OR  
## 329 Address.State CO  
## 738 Address.State KS  
## 970 Address.State MO  
## 6910 Address.State AK  
## 298 Address.State CO  
## 680 Address.State IL  
## 1097 Address.State NJ  
## 223 Address.State AZ  
## 1246 Address.State TN  
## 141 Address.State AL  
## 408 Address.State DC  
## 6010 Address.State AK  
## 781 Address.State LA  
## 649 Address.State IL  
## 1122 Address.State NM  
## 878 Address.State ME  
## 7810 Address.State AK  
## 806 Address.State LA  
## 161 Address.State AR  
## 1084 Address.State NH  
## 406 Address.State DC  
## 239 Address.State AZ  
## 1108 Address.State NM  
## 1201 Address.State PA  
## 1104 Address.State NJ  
## 651 Address.State IL  
## 916 Address.State MI  
## 521 Address.State GA  
## 740 Address.State KS  
## 676 Address.State IL  
## 1220 Address.State RI  
## 507 Address.State GA  
## 323 Address.State CO  
## 533 Address.State GA  
## 258 Address.State CA  
## 1274 Address.State WI  
## 139 Address.State AL  
## 1039 Address.State NC  
## 372 Address.State CT  
## 1244 Address.State TN  
## 674 Address.State IL  
## 994 Address.State MS  
## 1169 Address.State OH  
## 769 Address.State KY  
## 215 Address.State AZ  
## 1147 Address.State NY  
## 321 Address.State CO  
## 343 Address.State CT  
## 959 Address.State MO  
## 341 Address.State CT  
## 368 Address.State CT  
## 284 Address.State CA  
## 1073 Address.State NH  
## 672 Address.State IL  
## 556 Address.State HI  
## 1212 Address.State RI  
## 1163 Address.State OH  
## 880 Address.State ME  
## 885 Address.State ME  
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## 641 Address.State ID  
## 747 Address.State KS  
## 379 Address.State DC  
## 266 Address.State CA  
## 907 Address.State MI  
## 1237 Address.State SD  
## 1254 Address.State TX  
## 879 Address.State ME  
## 536 Address.State HI  
## 233 Address.State AZ  
## 896 Address.State ME  
## 208 Address.State AZ  
## 728 Address.State KS  
## 364 Address.State CT  
## 634 Address.State ID  
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## 720 Address.State KS  
## 384 Address.State DC  
## 7310 Address.State AK  
## 11210 Address.State AL  
## 1176 Address.State OK  
## 1214 Address.State RI  
## 630 Address.State ID  
## 799 Address.State LA  
## 294 Address.State CO  
## 754 Address.State KY  
## 1161 Address.State OH  
## 635 Address.State ID  
## 733 Address.State KS  
## 6111 Address.State ID  
## 522 Address.State GA  
## 469 Address.State FL  
## 6810 Address.State AK  
## 978 Address.State MS  
## 472 Address.State FL  
## 337 Address.State CT  
## 399 Address.State DC  
## 773 Address.State KY  
## 154 Address.State AR  
## 883 Address.State ME  
## 691 Address.State IN  
## 1233 Address.State SD  
## 903 Address.State MI  
## 1144 Address.State NY  
## 380 Address.State DC  
## 639 Address.State ID  
## 213 Address.State AZ  
## 366 Address.State CT  
## 593 Address.State IA  
## 117 Address.State AL  
## 247 Address.State CA  
## 452 Address.State DE  
## 502 Address.State GA  
## 331 Address.State CT  
## 482 Address.State FL  
## 1031 Address.State NC  
## 300 Address.State CO  
## 9210 Address.State AK  
## 273 Address.State CA  
## 515 Address.State GA  
## 615 Address.State ID  
## 829 Address.State MA  
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## 1223 Address.State SC  
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## 325 Address.State CO  
## 922 Address.State MI  
## 901 Address.State MI  
## 669 Address.State IL  
## 1087 Address.State NJ  
## 9710 Address.State AK  
## 943 Address.State MN  
## 795 Address.State LA  
## 7110 Address.State AK  
## 1205 Address.State PA  
## 1092 Address.State NJ  
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## 299 Address.State CO  
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## 8101 Address.State LA  
## 1170 Address.State OH  
## 8610 Address.State AK  
## 888 Address.State ME  
## 476 Address.State FL  
## 253 Address.State CA  
## 1120 Address.State NM  
## 800 Address.State LA  
## 860 Address.State MD  
## 872 Address.State ME  
## 132 Address.State AL  
## 361 Address.State CT  
## 802 Address.State LA  
## 1109 Address.State NM  
## 862 Address.State MD  
## 288 Address.State CO  
## 842 Address.State MD  
## 113 Address.State AL  
## 650 Address.State IL  
## 594 Address.State IA  
## 499 Address.State GA  
## 653 Address.State IL  
## 886 Address.State ME  
## 498 Address.State GA  
## 580 Address.State IA  
## 262 Address.State CA  
## 1243 Address.State TN  
## 882 Address.State ME  
## 302 Address.State CO  
## 459 Address.State FL  
## 981 Address.State MS  
## 813 Address.State MA  
## 293 Address.State CO  
## 833 Address.State MA  
## 1162 Address.State OH  
## 336 Address.State CT  
## 581 Address.State IA  
## 595 Address.State IA  
## 365 Address.State CT  
## 385 Address.State DC  
## 673 Address.State IL  
## 984 Address.State MS  
## 995 Address.State MS  
## 1241 Address.State TN  
## 608 Address.State IA  
## 403 Address.State DC  
## 636 Address.State ID  
## 250 Address.State CA  
## 349 Address.State CT  
## 378 Address.State DC  
## 631 Address.State ID  
## 804 Address.State LA  
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## 124 Address.State AL  
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## 205 Address.State AZ  
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## 609 Address.State IA  
## 632 Address.State ID  
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## 893 Address.State ME  
## 942 Address.State MN  
## 987 Address.State MS  
## 990 Address.State MS  
## 1096 Address.State NJ  
## 5510 Address.State AK  
## 11110 Address.State AL  
## 158 Address.State AR  
## 268 Address.State CA  
## 345 Address.State CT  
## 5111 Address.State GA  
## 617 Address.State ID  
## 627 Address.State ID  
## 724 Address.State KS  
## 897 Address.State ME  
## 986 Address.State MS  
## 1202 Address.State PA  
## 226 Address.State AZ  
## 295 Address.State CO  
## 318 Address.State CO  
## 407 Address.State DC  
## 600 Address.State IA  
## 619 Address.State ID  
## 621 Address.State ID  
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## 9910 Address.State AK  
## 10510 Address.State AL  
## 136 Address.State AL  
## 217 Address.State AZ  
## 342 Address.State CT  
## 357 Address.State CT  
## 362 Address.State CT  
## 460 Address.State FL  
## 474 Address.State FL  
## 577 Address.State IA  
## 579 Address.State IA  
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## 596 Address.State IA  
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## 771 Address.State KY  
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## 980 Address.State MS  
## 982 Address.State MS  
## 999 Address.State MS  
## 1182 Address.State OK  
## 1216 Address.State RI  
## 1222 Address.State SC  
## 1239 Address.State SD  
## 1247 Address.State TN  
## 6310 Address.State AK  
## 7410 Address.State AK  
## 8010 Address.State AK  
## 8110 Address.State AK  
## 8210 Address.State AK  
## 8510 Address.State AK  
## 9010 Address.State AK  
## 10610 Address.State AL  
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## 120 Address.State AL  
## 137 Address.State AL  
## 143 Address.State AL  
## 187 Address.State AR  
## 204 Address.State AZ  
## 240 Address.State AZ  
## 249 Address.State CA  
## 277 Address.State CA  
## 287 Address.State CO  
## 306 Address.State CO  
## 314 Address.State CO  
## 322 Address.State CO  
## 338 Address.State CT  
## 387 Address.State DC  
## 391 Address.State DC  
## 4101 Address.State DC  
## 419 Address.State DE  
## 432 Address.State DE  
## 517 Address.State GA  
## 526 Address.State GA  
## 537 Address.State HI  
## 575 Address.State IA  
## 588 Address.State IA  
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## 985 Address.State MS  
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## 1072 Address.State NH  
## 1083 Address.State NH  
## 1103 Address.State NJ  
## 1114 Address.State NM  
## 1121 Address.State NM  
## 1145 Address.State NY  
## 1148 Address.State NY  
## 1196 Address.State OR  
## 1230 Address.State SC  
## 1238 Address.State SD  
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## 6710 Address.State AK  
## 7610 Address.State AK  
## 8710 Address.State AK  
## 9110 Address.State AK  
## 9810 Address.State AK  
## 10410 Address.State AL  
## 167 Address.State AR  
## 171 Address.State AR  
## 232 Address.State AZ  
## 319 Address.State CO  
## 404 Address.State DC  
## 422 Address.State DE  
## 428 Address.State DE  
## 448 Address.State DE  
## 574 Address.State IA  
## 578 Address.State IA  
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## 817 Address.State MA  
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## 890 Address.State ME  
## 989 Address.State MS  
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## 1189 Address.State OR  
## 1199 Address.State PA  
## 1213 Address.State RI  
## 1232 Address.State SD  
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## 4110 Address.State   
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## 1810 Address.State   
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## 10100 Address.State   
## 8100 Address.State   
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## 2910 Address.State   
## 4910 Address.State   
## 5010 Address.State   
## 4810 Address.State   
## 4100 Address.State   
## 1610 Address.State   
## 2010 Address.State   
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## 2410 Address.State   
## 480 Address.State FL  
## 7100 Address.State   
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## 2210 Address.State   
## 4010 Address.State   
## 2810 Address.State   
## 5110 Address.State   
## 576 Address.State IA  
## 582 Address.State IA  
## 587 Address.State IA  
## 606 Address.State IA  
## 6101 Address.State IA  
## 687 Address.State IN  
## 692 Address.State IN  
## 7111 Address.State IN  
## 715 Address.State IN  
## 875 Address.State ME  
## 894 Address.State ME  
## 898 Address.State ME  
## 1019 Address.State MT  
## 1023 Address.State MT  
## 1270 Address.State VT  
## 2102 Debt.To.Income.Ratio 1  
## 5102 Debt.To.Income.Ratio 2  
## 3102 Debt.To.Income.Ratio 1  
## 7102 Debt.To.Income.Ratio 3  
## 6102 Debt.To.Income.Ratio 2  
## 4102 Debt.To.Income.Ratio 1  
## 2611 No..Delinquencies.In.Last.2.Years Nine  
## 2911 No..Delinquencies.In.Last.2.Years Nine  
## 1278 No..Delinquencies.In.Last.2.Years Five  
## 1911 No..Delinquencies.In.Last.2.Years Four  
## 3211 No..Delinquencies.In.Last.2.Years None  
## 2011 No..Delinquencies.In.Last.2.Years Four  
## 2811 No..Delinquencies.In.Last.2.Years Nine  
## 2112 No..Delinquencies.In.Last.2.Years Four  
## 2511 No..Delinquencies.In.Last.2.Years Four  
## 2311 No..Delinquencies.In.Last.2.Years Four  
## 2411 No..Delinquencies.In.Last.2.Years Four  
## 3511 No..Delinquencies.In.Last.2.Years None  
## 3611 No..Delinquencies.In.Last.2.Years None  
## 8102 No..Delinquencies.In.Last.2.Years Eight  
## 4411 No..Delinquencies.In.Last.2.Years Six  
## 3811 No..Delinquencies.In.Last.2.Years One  
## 4511 No..Delinquencies.In.Last.2.Years Six  
## 3411 No..Delinquencies.In.Last.2.Years None  
## 5103 No..Delinquencies.In.Last.2.Years Eight  
## 1611 No..Delinquencies.In.Last.2.Years Five  
## 10101 No..Delinquencies.In.Last.2.Years Eight  
## 6103 No..Delinquencies.In.Last.2.Years Eight  
## 9102 No..Delinquencies.In.Last.2.Years Eight  
## 4611 No..Delinquencies.In.Last.2.Years Three  
## 3911 No..Delinquencies.In.Last.2.Years One  
## 11101 No..Delinquencies.In.Last.2.Years Five  
## 1311 No..Delinquencies.In.Last.2.Years Five  
## 3311 No..Delinquencies.In.Last.2.Years None  
## 4311 No..Delinquencies.In.Last.2.Years Seven  
## 1411 No..Delinquencies.In.Last.2.Years Five  
## 4011 No..Delinquencies.In.Last.2.Years One  
## 1811 No..Delinquencies.In.Last.2.Years Five  
## 2103 No..Delinquencies.In.Last.2.Years Eight  
## 4211 No..Delinquencies.In.Last.2.Years Seven  
## 3103 No..Delinquencies.In.Last.2.Years Eight  
## 4103 No..Delinquencies.In.Last.2.Years Eight  
## 7103 No..Delinquencies.In.Last.2.Years Eight  
## 1511 No..Delinquencies.In.Last.2.Years Five  
## 1711 No..Delinquencies.In.Last.2.Years Five  
## 2212 No..Delinquencies.In.Last.2.Years Four  
## 3711 No..Delinquencies.In.Last.2.Years One  
## 2711 No..Delinquencies.In.Last.2.Years Nine  
## 3112 No..Delinquencies.In.Last.2.Years Nine  
## 3011 No..Delinquencies.In.Last.2.Years Nine  
## 4112 No..Delinquencies.In.Last.2.Years Seven  
## 1312 FICO.Credit.Score 3  
## 2012 FICO.Credit.Score 5  
## 2213 FICO.Credit.Score 6  
## 1712 FICO.Credit.Score 4  
## 8103 FICO.Credit.Score 2  
## 1812 FICO.Credit.Score 4  
## 9103 FICO.Credit.Score 2  
## 2104 FICO.Credit.Score 1  
## 1279 FICO.Credit.Score 2  
## 10102 FICO.Credit.Score 2  
## 5104 FICO.Credit.Score 1  
## 11102 FICO.Credit.Score 2  
## 2113 FICO.Credit.Score 5  
## 1912 FICO.Credit.Score 4  
## 1512 FICO.Credit.Score 3  
## 4104 FICO.Credit.Score 1  
## 1412 FICO.Credit.Score 3  
## 1612 FICO.Credit.Score 3  
## 6104 FICO.Credit.Score 1  
## 7104 FICO.Credit.Score 1  
## 3104 FICO.Credit.Score 1  
## 7105 No..Inquiries.In.Last.6.Months 3  
## 4105 No..Inquiries.In.Last.6.Months 1  
## 6105 No..Inquiries.In.Last.6.Months 2  
## 2105 No..Inquiries.In.Last.6.Months 1  
## 5105 No..Inquiries.In.Last.6.Months 2  
## 3105 No..Inquiries.In.Last.6.Months 1  
## 1913 Months.Since.Last.Delinquency 10  
## 1513 Months.Since.Last.Delinquency 10  
## 2114 Months.Since.Last.Delinquency 10  
## 6711 Months.Since.Last.Delinquency 4  
## 8104 Months.Since.Last.Delinquency 1  
## 1713 Months.Since.Last.Delinquency 10  
## 2412 Months.Since.Last.Delinquency 10  
## 1413 Months.Since.Last.Delinquency 10  
## 7411 Months.Since.Last.Delinquency 6  
## 5911 Months.Since.Last.Delinquency 3  
## 6811 Months.Since.Last.Delinquency 4  
## 5611 Months.Since.Last.Delinquency 2  
## 7811 Months.Since.Last.Delinquency 7  
## 3212 Months.Since.Last.Delinquency 11  
## 4113 Months.Since.Last.Delinquency 12  
## 2106 Months.Since.Last.Delinquency 1  
## 2312 Months.Since.Last.Delinquency 10  
## 1313 Months.Since.Last.Delinquency 1  
## 3106 Months.Since.Last.Delinquency 1  
## 6112 Months.Since.Last.Delinquency 3  
## 2013 Months.Since.Last.Delinquency 10  
## 6411 Months.Since.Last.Delinquency 3  
## 2812 Months.Since.Last.Delinquency 11  
## 5211 Months.Since.Last.Delinquency 2  
## 11103 Months.Since.Last.Delinquency 1  
## 7711 Months.Since.Last.Delinquency 7  
## 3712 Months.Since.Last.Delinquency 12  
## 6106 Months.Since.Last.Delinquency 1  
## 7911 Months.Since.Last.Delinquency 8  
## 10103 Months.Since.Last.Delinquency 1  
## 3312 Months.Since.Last.Delinquency 11  
## 7511 Months.Since.Last.Delinquency 6  
## 1813 Months.Since.Last.Delinquency 10  
## 7112 Months.Since.Last.Delinquency 5  
## 4106 Months.Since.Last.Delinquency 1  
## 4212 Months.Since.Last.Delinquency 12  
## 5711 Months.Since.Last.Delinquency 2  
## 3912 Months.Since.Last.Delinquency 12  
## 6511 Months.Since.Last.Delinquency 4  
## 2512 Months.Since.Last.Delinquency 11  
## 4312 Months.Since.Last.Delinquency 12  
## 3612 Months.Since.Last.Delinquency 12  
## 7106 Months.Since.Last.Delinquency 1  
## 7011 Months.Since.Last.Delinquency 5  
## 2912 Months.Since.Last.Delinquency 11  
## 6311 Months.Since.Last.Delinquency 3  
## 6911 Months.Since.Last.Delinquency 4  
## 3512 Months.Since.Last.Delinquency 12  
## 3812 Months.Since.Last.Delinquency 12  
## 4012 Months.Since.Last.Delinquency 12  
## 6211 Months.Since.Last.Delinquency 3  
## 3113 Months.Since.Last.Delinquency 11  
## 7611 Months.Since.Last.Delinquency 6  
## 5311 Months.Since.Last.Delinquency 2  
## 6011 Months.Since.Last.Delinquency 3  
## 5411 Months.Since.Last.Delinquency 2  
## 5511 Months.Since.Last.Delinquency 2  
## 7311 Months.Since.Last.Delinquency 5  
## 3012 Months.Since.Last.Delinquency 11  
## 2214 Months.Since.Last.Delinquency 10  
## 4811 Months.Since.Last.Delinquency 13  
## 4612 Months.Since.Last.Delinquency 13  
## 4412 Months.Since.Last.Delinquency 13  
## 5112 Months.Since.Last.Delinquency 13  
## 2612 Months.Since.Last.Delinquency 11  
## 5011 Months.Since.Last.Delinquency 13  
## 5106 Months.Since.Last.Delinquency 1  
## 4711 Months.Since.Last.Delinquency 13  
## 2712 Months.Since.Last.Delinquency 11  
## 5811 Months.Since.Last.Delinquency 2  
## 4512 Months.Since.Last.Delinquency 13  
## 1280 Months.Since.Last.Delinquency 1  
## 6611 Months.Since.Last.Delinquency 4  
## 9104 Months.Since.Last.Delinquency 1  
## 7211 Months.Since.Last.Delinquency 5  
## 1613 Months.Since.Last.Delinquency 10  
## 3412 Months.Since.Last.Delinquency 11  
## 4911 Months.Since.Last.Delinquency 13  
## 3114 No..Of.Credit.Lines 3  
## 7107 No..Of.Credit.Lines 1  
## 6107 No..Of.Credit.Lines 1  
## 4613 No..Of.Credit.Lines 8  
## 3107 No..Of.Credit.Lines 1  
## 2014 No..Of.Credit.Lines 2  
## 1914 No..Of.Credit.Lines 2  
## 2215 No..Of.Credit.Lines 2  
## 4114 No..Of.Credit.Lines 6  
## 3713 No..Of.Credit.Lines 5  
## 2813 No..Of.Credit.Lines 3  
## 9105 No..Of.Credit.Lines 1  
## 3213 No..Of.Credit.Lines 4  
## 3413 No..Of.Credit.Lines 4  
## 2613 No..Of.Credit.Lines 3  
## 1814 No..Of.Credit.Lines 10  
## 3313 No..Of.Credit.Lines 4  
## 4413 No..Of.Credit.Lines 7  
## 2413 No..Of.Credit.Lines 2  
## 3913 No..Of.Credit.Lines 5  
## 2913 No..Of.Credit.Lines 3  
## 3013 No..Of.Credit.Lines 3  
## 8105 No..Of.Credit.Lines 1  
## 3513 No..Of.Credit.Lines 4  
## 2115 No..Of.Credit.Lines 2  
## 2713 No..Of.Credit.Lines 3  
## 3813 No..Of.Credit.Lines 5  
## 2313 No..Of.Credit.Lines 2  
## 4213 No..Of.Credit.Lines 6  
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## 39 Vacation 0.0551534790035897  
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## 19 Home Improvement 0.104958445088611  
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## 84 Vacation 0.408330258839907  
## 70 Wedding 0.413792735939011  
## 711 Major Purchase 0.44272893910068  
## 106 Wedding 0.447196890138036  
## 86 Moving 0.453303414559378  
## 16 Credit Card 0.469852474245502  
## 37 Renewable Energy 0.478340594604272  
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## 78 Wedding 0.483902094687272  
## 99 Vacation 0.495196148863551  
## 211 Major Purchase 0.53890631887252  
## 60 Vacation 0.569585031211203  
## 46 Moving 0.581027528687439  
## 25 Renewable Energy 0.648424764868802  
## 73 Moving 0.658423450106155  
## 55 Medical 0.684112236667303  
## 28 Wedding 0.711632902840894  
## 95 Vacation 0.753453939076969  
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## 56 Moving 0.884220910313576  
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## 83 Small Business 1.76123940940562e-15  
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## 710 House 4.49044526309461e-14  
## 13 Small Business 4.8695274578933e-15  
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## 14 Vacation 6.38753020907898e-12  
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## 2100 AK 0.00170187209267302  
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## 178 NV 0.0034904546472531  
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## 1029 NY 0.00382878966308357  
## 305 MO 0.00433997930255037  
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## 568 VA 0.0085741509375858  
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## 131 NV 0.00928751347383969  
## 953 MT 0.00946263380460972  
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## 1033 PA 0.0102106122206656  
## 920 VA 0.0103067570658745  
## 155 FL 0.0103714036224909  
## 1153 WA 0.0109392416570045  
## 561 PA 0.0111590557105536  
## 123 MO 0.0115316424626033  
## 333 FL 0.0120759507651363  
## 251 IL 0.012435350880854  
## 814 MI 0.0135928807802607  
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## 853 NV 0.0139912896987812  
## 538 IL 0.0141584826433994  
## 1150 UT 0.0144659957442502  
## 659 NC 0.0149048781798927  
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## 530 VA 0.0154976714915314  
## 189 UT 0.0155181464021526  
## 1256 VA 0.0157625552113618  
## 1017 UT 0.0157681802520316  
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## 1263 WA 0.0158517857279153  
## 918 TX 0.01588622814231  
## 913 PA 0.0159066790213316  
## 845 MO 0.0165893939307723  
## 473 MT 0.0166883130233268  
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## 835 UT 0.0183442146233592  
## 4310 TN 0.0196306572572907  
## 168 MI 0.0196560592232324  
## 292 HI 0.0197873251742465  
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## 838 WA 0.0202910859570313  
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## 925 WY 0.0206216806005097  
## 505 MA 0.0214729450187184  
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## 528 TX 0.0226858441457836  
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## 1020 WA 0.0229711463252614  
## 1273 WY 0.0229711463252614  
## 335 HI 0.0231435670427296  
## 1207 WA 0.023820136814204  
## 192 WA 0.0240972909638615  
## 1252 WA 0.0250287927161408  
## 523 PA 0.0250606053410236  
## 435 NE 0.0251814644044597  
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## 263 MT 0.0272190096679479  
## 286 WY 0.0272190096679479  
## 512 MT 0.0273614033375098  
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## 108 FL 0.0277351931643197  
## 675 UT 0.0282225145773032  
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## 1089 NY 0.0298932819552933  
## 156 GA 0.0305032899892709  
## 794 NV 0.0310974229615192  
## 308 NC 0.031535667222486  
## 1003 NH 0.0318368833707514  
## 1086 WY 0.0318368833707514  
## 678 WA 0.0335194113976185  
## 934 NV 0.0349196849962701  
## 1004 NJ 0.0354259897028198  
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## 1125 OH 0.0361407305650062  
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## 467 MD 0.0365091821442725  
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## 1021 WI 0.0387840080911542  
## 1275 WY 0.0387840080911542  
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## 786 MO 0.039546852975185  
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## 1123 WY 0.0420259511053271  
## 224 NV 0.0420942760833585  
## 1008 OH 0.0426177947539926  
## 1171 WY 0.0426177947539926  
## 324 UT 0.0428162882597726  
## 725 MT 0.0429334185486824  
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## 1100 VA 0.0457773179690864  
## 434 NC 0.0461364917863739  
## 242 CO 0.0474519620568584  
## 176 NJ 0.0495359431703012  
## 367 UT 0.0506580123358886  
## 544 MD 0.0527740152636377  
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## 346 MI 0.0547914259390856  
## 928 MT 0.0548982338926443  
## 951 WY 0.0548982338926443  
## 957 NJ 0.0552317786595329  
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## 398 NV 0.0557421323516211  
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## 1231 WY 0.055855359383252  
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## 847 MT 0.0567170774755207  
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## 822 NJ 0.0581495895117668  
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## 243 CT 0.0610169042325884  
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## 142 UT 0.0619815826388729  
## 182 OR 0.0652652557435314  
## 261 MO 0.066847426216098  
## 175 NH 0.0680895336058718  
## 1093 PA 0.0687194138302205  
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## 1276 WY 0.0803022354266137  
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## 658 MT 0.0831610881454786  
## 681 WY 0.0831610881454786  
## 2310 ME 0.0832645166635505  
## 1180 VA 0.0832731392588404  
## 788 MT 0.0851432650775623  
## 8111 WY 0.0851432650775623  
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## 1050 NY 0.0881027054377671  
## 10111 PA 0.088109727952082  
## 1210 WY 0.088109727952082  
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## 660 NE 0.0920431057955387  
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## 164 LA 0.276534838585719  
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## 495 WV 0.467225532672993  
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## 7510 MO 0.611694491619133  
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## 267 NJ 0.620312228734849  
## 567 UT 0.623174327153745  
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## 1076 SC 0.625606926511603  
## 389 MN 0.626835356618076  
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