Description

Predict the number of comments in a blog using available features

Data

Dataset used here is the BlogFeedback Data Set by Krisztian Buza, it can be found on UC Irvine Machine Learning Repository. There are 60 test files and one training file in the dataset.

In total, 281 attributes are available for each observation. Our goal is to predict the number of comments in the next 24 hours. Certain variables are removed in prepossessing due to lack of variations.

The models are fitted on the log-transformed responses. Model performances are measured by mean squared error

Problem- prediction of the number of comments in the upcoming 24 hours on those blogs, The train data was generated from different base times that may temporally overlap. Therefore, if you simply split the train into disjoint partitions, the underlying time intervals may overlap. Therefore, the you should use the provided, temporally disjoint train and test splits to ensure that the evaluation is fair.

a. Read the dataset and identify the right features

b. Clean dataset, impute missing values and perform exploratory data analysis.

c. Visualize the dataset and make inferences from that

d. Perform any 3 hypothesis tests using columns of your choice, make conclusions

e. Create a linear regression model to predict the number of comments in the next 24 hours (relative to basetime)

f. Fine tune the model and represent important features

g. Interpret the summary of the linear model

h. Report the test accuracy vs. the training accuracy

i. Interpret the final model coefficients

j. Plot the model result and compare it with assumptions of the model

### Data Preprocessing ###

library(data.table)

library(foreach)

library(readr)

# [1] "C:/Users/Downloads/New folder (2)"

setwd("C:/Users/seshan/Desktop/BlogFeedback")

# [1] "C:/Users/seshan/Downloads/New folder (2)"

blogData\_train <- read\_csv("C:/Users/Seshan/Desktop/BlogFeedback/blogData\_train.csv")

## Warning: Duplicated column names deduplicated: '0.0' => '0.0\_1' [8],

## '0.0' => '0.0\_2' [13], '377.0' => '377.0\_1' [14], '0.0' => '0.0\_3' [18],

## '377.0' => '377.0\_2' [24], '0.0' => '0.0\_4' [25], '0.0' => '0.0\_5' [28],

## '0.0' => '0.0\_6' [30], '0.0' => '0.0\_7' [33], '0.0' => '0.0\_8' [35], '0.0'

## => '0.0\_9' [38], '9.0' => '9.0\_1' [39], '0.0' => '0.0\_10' [40], '0.0'

## => '0.0\_11' [43], '0.0' => '0.0\_12' [45], '9.0' => '9.0\_2' [49], '0.0'

## => '0.0\_13' [50], '2.0' => '2.0\_1' [51], '2.0' => '2.0\_2' [52], '0.0'

## => '0.0\_14' [53], '2.0' => '2.0\_3' [54], '2.0' => '2.0\_4' [55], '0.0' =>

## '0.0\_15' [56], '0.0' => '0.0\_16' [57], '0.0' => '0.0\_17' [58], '0.0' =>

## '0.0\_18' [59], '0.0' => '0.0\_19' [60], '10.0' => '10.0\_1' [61], '0.0' =>

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## '0.0\_189' [231], '0.0' => '0.0\_190' [232], '0.0' => '0.0\_191' [233], '0.0'

## => '0.0\_192' [234], '0.0' => '0.0\_193' [235], '0.0' => '0.0\_194' [236],

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## '0.0\_197' [239], '0.0' => '0.0\_198' [240], '0.0' => '0.0\_199' [241], '0.0'

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## '0.0' => '0.0\_203' [245], '0.0' => '0.0\_204' [246], '0.0' =>

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## '0.0\_231' [275], '0.0' => '0.0\_232' [276], '0.0' => '0.0\_233' [277], '0.0'

## => '0.0\_234' [278], '0.0' => '0.0\_235' [279], '0.0' => '0.0\_236' [280],

## '1.0' => '1.0\_2' [281]

## Parsed with column specification:

## cols(

## .default = col\_double()

## )

## See spec(...) for full column specifications.

View(blogData\_train)

# retrieve filenames of test sets

test\_filenames = list.files(pattern = "blogData\_test")

# load and combine dataset

train = fread("blogData\_train.csv")

test = foreach(i = 1:length(test\_filenames), .combine = rbind) %do% {

temp = fread(test\_filenames[i], header = F)

}

# log-transform

train[, V281 := log(1 + V281)]

test[, V281 := log(1 + V281)]

# drop continous variables without variation

drop = c(8, 13, 28, 33, 38, 40, 43, 50, 278)

train[, (drop) := NULL]

test[, (drop) := NULL]

# write to files

write.csv(train, "BlogFeedback-Train.csv", row.names = F)

write.csv(test, "BlogFeedback-Test.csv", row.names = F)

train

## V1 V2 V3 V4 V5 V6 V7 V9 V10 V11

## 1: 40.30467 53.84566 0 401 15 15.52416 32.44188 377 3 14.04423

## 2: 40.30467 53.84566 0 401 15 15.52416 32.44188 377 3 14.04423

## 3: 40.30467 53.84566 0 401 15 15.52416 32.44188 377 3 14.04423

## 4: 40.30467 53.84566 0 401 15 15.52416 32.44188 377 3 14.04423

## 5: 40.30467 53.84566 0 401 15 15.52416 32.44188 377 3 14.04423

## ---

## 52393: 33.00000 0.00000 33 33 33 11.00000 15.55635 33 0 11.00000

## 52394: 33.00000 0.00000 33 33 33 11.00000 15.55635 33 0 11.00000

## 52395: 0.00000 0.00000 0 0 0 0.00000 0.00000 0 0 0.00000

## 52396: 0.00000 0.00000 0 0 0 0.00000 0.00000 0 0 0.00000

## 52397: 0.00000 0.00000 0 0 0 0.00000 0.00000 0 0 0.00000

## V12 V14 V15 V16 V17 V18 V19 V20 V21 V22

## 1: 32.61542 377 2 34.56757 48.47518 0 378 12 1.479934 46.18691

## 2: 32.61542 377 2 34.56757 48.47518 0 378 12 1.479934 46.18691

## 3: 32.61542 377 2 34.56757 48.47518 0 378 12 1.479934 46.18691

## 4: 32.61542 377 2 34.56757 48.47518 0 378 12 1.479934 46.18691

## 5: 32.61542 377 2 34.56757 48.47518 0 378 12 1.479934 46.18691

## ---

## 52393: 15.55635 33 0 33.00000 0.00000 33 33 33 0.000000 26.94439

## 52394: 15.55635 33 0 33.00000 0.00000 33 33 33 0.000000 26.94439

## 52395: 0.00000 0 0 0.00000 0.00000 0 0 0 0.000000 0.00000

## 52396: 0.00000 0 0 0.00000 0.00000 0 0 0 0.000000 0.00000

## 52397: 0.00000 0 0 0.00000 0.00000 0 0 0 0.000000 0.00000

## V23 V24 V25 V26 V27 V29 V30 V31 V32 V34 V35

## 1: -356 377 0 1.076167 1.795416 11 0 0.4004914 1.0780969 9 0

## 2: -356 377 0 1.076167 1.795416 11 0 0.4004914 1.0780969 9 0

## 3: -356 377 0 1.076167 1.795416 11 0 0.4004914 1.0780969 9 0

## 4: -356 377 0 1.076167 1.795416 11 0 0.4004914 1.0780969 9 0

## 5: -356 377 0 1.076167 1.795416 11 0 0.4004914 1.0780969 9 0

## ---

## 52393: -33 33 0 0.000000 0.000000 0 0 0.0000000 0.0000000 0 0

## 52394: -33 33 0 0.000000 0.000000 0 0 0.0000000 0.0000000 0 0

## 52395: 0 0 0 2.000000 0.000000 2 2 0.6666667 0.9428091 2 0

## 52396: 0 0 0 2.000000 0.000000 2 2 0.6666667 0.9428091 2 0

## 52397: 0 0 0 2.000000 0.000000 2 2 0.6666667 0.9428091 2 0

## V36 V37 V39 V41 V42 V44 V45 V46

## 1: 0.3775594 1.0742100 9 0.972973 1.704671 10 0 0.02293202

## 2: 0.3775594 1.0742100 9 0.972973 1.704671 10 0 0.02293202

## 3: 0.3775594 1.0742100 9 0.972973 1.704671 10 0 0.02293202

## 4: 0.3775594 1.0742100 9 0.972973 1.704671 10 0 0.02293202

## 5: 0.3775594 1.0742100 9 0.972973 1.704671 10 0 0.02293202

## ---

## 52393: 0.0000000 0.0000000 0 0.000000 0.000000 0 0 0.00000000

## 52394: 0.0000000 0.0000000 0 0.000000 0.000000 0 0 0.00000000

## 52395: 0.6666667 0.9428091 2 2.000000 0.000000 2 2 0.00000000

## 52396: 0.6666667 0.9428091 2 2.000000 0.000000 2 2 0.00000000

## 52397: 0.6666667 0.9428091 2 2.000000 0.000000 2 2 0.00000000

## V47 V48 V49 V51 V52 V53 V54 V55 V56 V57 V58 V59 V60 V61 V62

## 1: 1.521174 -8 9 2 2 0 2 2 0 0 0 0 0 10 0

## 2: 1.521174 -8 9 6 2 4 5 -2 0 0 0 0 0 35 0

## 3: 1.521174 -8 9 6 2 4 5 -2 0 0 0 0 0 35 0

## 4: 1.521174 -8 9 2 2 0 2 2 0 0 0 0 0 10 0

## 5: 1.521174 -8 9 3 1 2 2 -1 0 0 0 0 0 34 0

## ---

## 52393: 0.000000 0 0 33 0 33 33 -33 0 0 0 0 0 38 3137

## 52394: 0.000000 0 0 33 0 0 33 0 0 0 0 0 0 62 3137

## 52395: 1.632993 -2 2 0 0 0 0 0 2 2 0 2 2 13 0

## 52396: 1.632993 -2 2 0 0 0 0 0 2 0 2 2 -2 37 0

## 52397: 1.632993 -2 2 0 0 0 0 0 2 0 0 2 0 61 0

## V63 V64 V65 V66 V67 V68 V69 V70 V71 V72 V73 V74 V75 V76 V77 V78 V79

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0

## 52394: 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## V80 V81 V82 V83 V84 V85 V86 V87 V88 V89 V90 V91 V92 V93 V94 V95 V96

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## V97 V98 V99 V100 V101 V102 V103 V104 V105 V106 V107 V108 V109 V110

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 1 0 0 0 0 0 0 0 0 0

## 52394: 0 0 0 0 1 0 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## V111 V112 V113 V114 V115 V116 V117 V118 V119 V120 V121 V122 V123

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 0 0 0 0 0 0 1 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 1 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V124 V125 V126 V127 V128 V129 V130 V131 V132 V133 V134 V135 V136

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V137 V138 V139 V140 V141 V142 V143 V144 V145 V146 V147 V148 V149

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 1 0 0 0 0 1 0 0 0 0 0 0

## 52394: 0 1 0 0 0 0 1 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V150 V151 V152 V153 V154 V155 V156 V157 V158 V159 V160 V161 V162

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

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## 52393: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V163 V164 V165 V166 V167 V168 V169 V170 V171 V172 V173 V174 V175

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V176 V177 V178 V179 V180 V181 V182 V183 V184 V185 V186 V187 V188

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 1 0 0 0 0 0 0 0

## 52394: 0 0 0 0 0 1 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V189 V190 V191 V192 V193 V194 V195 V196 V197 V198 V199 V200 V201

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V202 V203 V204 V205 V206 V207 V208 V209 V210 V211 V212 V213 V214

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 0 0 0 0 0 0 1 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 1 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V215 V216 V217 V218 V219 V220 V221 V222 V223 V224 V225 V226 V227

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V228 V229 V230 V231 V232 V233 V234 V235 V236 V237 V238 V239 V240

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 1 0 0 0 1 0 0 0 0 0 0 0 0

## 52394: 1 0 0 0 1 0 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V241 V242 V243 V244 V245 V246 V247 V248 V249 V250 V251 V252 V253

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 1 0 0 0 0 0 0 0

## 52394: 0 0 0 0 0 1 0 0 0 0 0 0 0

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V254 V255 V256 V257 V258 V259 V260 V261 V262 V263 V264 V265 V266

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 52393: 0 0 0 0 0 0 0 0 0 0 0 1 0

## 52394: 0 0 0 0 0 0 0 0 0 0 0 0 1

## 52395: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52396: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 52397: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V267 V268 V269 V270 V271 V272 V273 V274 V275 V276 V277 V279 V280

## 1: 1 0 0 0 0 0 1 0 0 0 0 0 0

## 2: 1 0 0 0 0 1 0 0 0 0 0 0 0

## 3: 1 0 0 0 0 1 0 0 0 0 0 0 0

## 4: 1 0 0 0 0 0 1 0 0 0 0 0 0

## 5: 0 1 0 0 0 0 1 0 0 0 0 0 0

## ---

## 52393: 0 0 0 1 0 0 0 0 0 0 0 0 0

## 52394: 0 0 0 1 0 0 0 0 0 0 0 0 0

## 52395: 1 0 0 0 0 0 1 0 0 0 0 0 0

## 52396: 0 1 0 0 0 0 1 0 0 0 0 0 0

## 52397: 0 0 1 0 0 0 1 0 0 0 0 0 0

## V281

## 1: 0.6931472

## 2: 0.0000000

## 3: 0.0000000

## 4: 0.6931472

## 5: 3.3322045

## ---

## 52393: 0.0000000

## 52394: 0.0000000

## 52395: 0.0000000

## 52396: 0.0000000

## 52397: 0.0000000

test

## V1 V2 V3 V4 V5 V6 V7 V9 V10

## 1: 10.630660 17.882992 1 259 5.0 4.0182760 10.39679 235 1.0

## 2: 43.435825 75.590485 0 634 20.0 15.9985895 44.56087 473 2.0

## 3: 1.733333 3.043390 0 9 0.0 0.7333333 1.52607 5 0.0

## 4: 27.230215 45.970950 0 371 14.0 10.7841730 24.20994 228 4.0

## 5: 4.500000 6.677075 0 18 0.5 3.0000000 4.00000 10 0.5

## ---

## 7620: 0.000000 0.000000 0 0 0.0 0.0000000 0.00000 0 0.0

## 7621: 56.512093 77.442830 0 438 32.0 19.2965300 49.22134 432 0.0

## 7622: 49.442368 112.620125 1 849 9.0 20.4454820 62.61939 506 2.0

## 7623: 16.593575 19.671364 1 144 10.0 6.5124497 11.05121 111 2.0

## 7624: 0.000000 0.000000 0 0 0.0 0.0000000 0.00000 0 0.0

## V11 V12 V14 V15 V16 V17 V18 V19 V20

## 1: 3.8172395 10.297346 235 1 9.776869 16.073494 1 192 5.0

## 2: 15.4696760 44.685085 473 1 40.971790 70.307840 0 479 18.0

## 3: 0.6666667 1.534782 5 0 1.133333 1.820867 0 5 0.0

## 4: 9.9976015 24.400290 228 2 22.563549 39.761290 0 337 10.0

## 5: 1.3333334 2.560382 7 0 2.833333 3.670453 0 8 0.5

## ---

## 7620: 0.0000000 0.000000 0 0 0.000000 0.000000 0 0 0.0

## 7621: 18.9663500 49.304424 432 0 55.904312 76.864080 0 438 31.0

## 7622: 19.2211840 62.536453 506 1 38.274143 85.508520 1 574 7.0

## 7623: 5.8257027 11.001102 111 1 13.765462 15.641400 1 112 9.0

## 7624: 0.0000000 0.000000 0 0 0.000000 0.000000 0 0 0.0

## V21 V22 V23 V24 V25 V26 V27 V29 V30

## 1: 0.20103656 13.948867 -229 217 0.0 0.25177306 0.9038038 14 0

## 2: 0.52891400 62.134968 -461 473 0.0 0.19322990 0.4576994 2 0

## 3: 0.06666667 1.730767 -5 4 0.0 0.33333334 0.6992059 2 0

## 4: 0.78657070 30.358133 -156 228 0.0 0.11031175 0.3562584 2 0

## 5: 1.66666660 2.211083 0 6 0.5 0.00000000 0.0000000 0 0

## ---

## 7620: 0.00000000 0.000000 0 0 0.0 0.00000000 0.0000000 0 0

## 7621: 0.33017877 72.227750 -426 432 0.0 0.00000000 0.0000000 0 0

## 7622: 1.22429910 78.975365 -474 506 0.0 1.07476640 2.2341206 16 0

## 7623: 0.68674700 14.777326 -104 111 0.0 0.01526104 0.1350592 2 0

## 7624: 0.00000000 0.000000 0 0 0.0 0.00000000 0.0000000 0 0

## V31 V32 V34 V35 V36 V37 V39 V41

## 1: 0.09438080 0.50673160 12 0 0.09192581 0.50421600 12 0.23349700

## 2: 0.07334273 0.28647503 2 0 0.06770099 0.27788836 2 0.17630465

## 3: 0.13333334 0.33993465 1 0 0.13333334 0.33993465 1 0.20000000

## 4: 0.04316547 0.21470532 2 0 0.04076739 0.20952702 2 0.09832134

## 5: 0.00000000 0.00000000 0 0 0.00000000 0.00000000 0 0.00000000

## ---

## 7620: 0.00000000 0.00000000 0 0 0.00000000 0.00000000 0 0.00000000

## 7621: 0.00000000 0.00000000 0 0 0.00000000 0.00000000 0 0.00000000

## 7622: 0.42679128 1.34016500 13 0 0.40809968 1.33201530 13 0.95015574

## 7623: 0.00562249 0.08483692 2 0 0.00562249 0.08483692 2 0.01526104

## 7624: 0.00000000 0.00000000 0 0 0.00000000 0.00000000 0 0.00000000

## V42 V44 V45 V46 V47 V48 V49 V51 V52 V53 V54 V55

## 1: 0.8547111 13 0 0.002454992 0.6747285 -10 12 35 35 0 35 35

## 2: 0.4297832 2 0 0.005641749 0.4044489 -2 2 21 0 2 21 -2

## 3: 0.4000000 1 0 0.000000000 0.3651484 -1 1 2 2 0 2 2

## 4: 0.3210027 2 0 0.002398082 0.2897018 -2 2 3 3 0 3 3

## 5: 0.0000000 0 0 0.000000000 0.0000000 0 0 0 0 0 0 0

## ---

## 7620: 0.0000000 0 0 0.000000000 0.0000000 0 0 1 1 0 0 1

## 7621: 0.0000000 0 0 0.000000000 0.0000000 0 0 2 1 1 1 0

## 7622: 1.9263725 14 0 0.018691588 1.7894533 -11 13 3 1 0 2 1

## 7623: 0.1350592 2 0 0.000000000 0.1202407 -2 2 8 8 0 8 8

## 7624: 0.0000000 0 0 0.000000000 0.0000000 0 0 1 1 0 1 1

## V56 V57 V58 V59 V60 V61 V62 V63 V64 V65 V66 V67 V68 V69 V70 V71 V72

## 1: 0 0 0 0 0 9 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 62 696 0 0 0 0 0 1 0 0 0 0

## 3: 2 2 0 2 2 13 8361 0 1 0 0 1 1 1 0 0 0

## 4: 0 0 0 0 0 9 2751 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 5 187 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 64 1478 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 47 4196 0 0 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 63 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 9 0 0 0 0 0 0 0 0 0 0 0

## V73 V74 V75 V76 V77 V78 V79 V80 V81 V82 V83 V84 V85 V86 V87 V88 V89

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## V90 V91 V92 V93 V94 V95 V96 V97 V98 V99 V100 V101 V102 V103 V104

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0

## 3: 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## V105 V106 V107 V108 V109 V110 V111 V112 V113 V114 V115 V116 V117

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V118 V119 V120 V121 V122 V123 V124 V125 V126 V127 V128 V129 V130

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 1 0 1 0 0 0 0 0 0 0 0

## 4: 0 1 0 0 1 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 1 0 0 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V131 V132 V133 V134 V135 V136 V137 V138 V139 V140 V141 V142 V143

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 1 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 0 1

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 1

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 1

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 1 0 0 0 1

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V144 V145 V146 V147 V148 V149 V150 V151 V152 V153 V154 V155 V156

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 1 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 1 0 1 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V157 V158 V159 V160 V161 V162 V163 V164 V165 V166 V167 V168 V169

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 1 1 0 0 0 0 0 0 0 0 0 0

## 4: 0 1 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 1 0 0 0 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V170 V171 V172 V173 V174 V175 V176 V177 V178 V179 V180 V181 V182

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 1 0 0 0 0 0 0 0 0 0 1 1 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V183 V184 V185 V186 V187 V188 V189 V190 V191 V192 V193 V194 V195

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 0 0 1 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 0 0 1 1 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V196 V197 V198 V199 V200 V201 V202 V203 V204 V205 V206 V207 V208

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 0 0 1 0 0 0 0 1 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 1 0 0 0 0 1 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V209 V210 V211 V212 V213 V214 V215 V216 V217 V218 V219 V220 V221

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 0 1 0 0 1 0 0 0 0 0 0 0 0

## 4: 0 0 0 0 1 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 1 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V222 V223 V224 V225 V226 V227 V228 V229 V230 V231 V232 V233 V234

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 1 0 0 0 0 0 1 0 0

## 3: 0 0 0 0 1 0 1 0 0 0 1 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 1 0 1 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V235 V236 V237 V238 V239 V240 V241 V242 V243 V244 V245 V246 V247

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 1 0

## 3: 0 0 0 0 0 0 0 0 0 0 0 1 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 1 1

## 5: 0 0 0 0 0 0 0 0 0 0 0 1 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 0 0 0 1 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V248 V249 V250 V251 V252 V253 V254 V255 V256 V257 V258 V259 V260

## 1: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 2: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 3: 1 0 0 0 0 0 1 0 0 0 0 0 0

## 4: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 5: 0 0 0 0 0 0 0 0 0 0 0 0 0

## ---

## 7620: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7621: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7622: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7623: 0 0 0 0 0 0 0 0 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 0 0 0 0 0 0

## V261 V262 V263 V264 V265 V266 V267 V268 V269 V270 V271 V272 V273

## 1: 0 0 0 0 1 0 0 0 0 0 1 0 0

## 2: 0 0 0 0 1 0 0 0 0 0 0 0 0

## 3: 0 0 0 0 1 0 0 0 0 0 1 0 0

## 4: 0 0 0 0 1 0 0 0 0 0 1 0 0

## 5: 0 0 0 0 1 0 0 0 0 0 1 0 0

## ---

## 7620: 0 0 0 0 0 0 0 1 0 0 0 1 0

## 7621: 0 0 0 0 0 0 0 1 0 0 0 0 1

## 7622: 0 0 0 0 0 0 0 1 0 0 0 1 0

## 7623: 0 0 0 0 0 0 0 1 0 0 0 0 0

## 7624: 0 0 0 0 0 0 0 1 0 0 0 0 0

## V274 V275 V276 V277 V279 V280 V281

## 1: 0 0 0 0 0 0 1.6094379

## 2: 0 0 1 0 0 0 0.0000000

## 3: 0 0 0 0 0 0 0.6931472

## 4: 0 0 0 0 0 0 1.7917595

## 5: 0 0 0 0 0 0 0.0000000

## ---

## 7620: 0 0 0 0 0 0 0.0000000

## 7621: 0 0 0 0 0 0 0.0000000

## 7622: 0 0 0 0 0 0 0.0000000

## 7623: 1 0 0 0 0 0 1.3862944

## 7624: 1 0 0 0 0 0 0.0000000

### Basic Models ###

library(data.table)

library(MatrixModels)

library(e1071)

library(FNN)

library(glmnet)

## Loading required package: Matrix

## Loaded glmnet 2.0-16

library(ranger)

library(xgboost)

# load and combine dataset

train = fread("BlogFeedback-Train.csv")

test = fread("BlogFeedback-Test.csv")

# error measure

mse = function(y\_hat, y) {

mse = mean((y - y\_hat)^2)

return(mse)

}

# create design matrices

train\_x = model.Matrix(V281 ~ . - 1, data = train, sparse = F)

train\_x\_sparse = model.Matrix(V281 ~ . - 1, data = train, sparse = T)

train\_y = train$V281

test\_x = model.Matrix(V281 ~ . - 1, data = test, sparse = F)

test\_y = test$V281

train\_xgb = xgb.DMatrix(data = as.matrix(train\_x), label = train\_y)

test\_xgb = xgb.DMatrix(data = as.matrix(test\_x), label = test\_y)

# try kNN

pred\_knn = knn.reg(train\_x, test\_x, train\_y, k = 19)$pred

mse(pred\_knn, test\_y)

## [1] 0.6383154

# try LASSO

mdl\_lasso = cv.glmnet(train\_x\_sparse, train\_y, family = "gaussian", alpha = 1)

pred\_lasso = predict(mdl\_lasso, newx = test\_x)

mse(pred\_lasso, test\_y)

## [1] 0.6365795

# try random forest

mdl\_rf = ranger(V281 ~ ., data = train, num.trees = 1000, mtry = 120, write.forest = T)

## Growing trees.. Progress: 3%. Estimated remaining time: 21 minutes, 27 seconds.

## Growing trees.. Progress: 5%. Estimated remaining time: 19 minutes, 39 seconds.

## Growing trees.. Progress: 8%. Estimated remaining time: 18 minutes, 54 seconds.

## Growing trees.. Progress: 11%. Estimated remaining time: 18 minutes, 7 seconds.

## Growing trees.. Progress: 14%. Estimated remaining time: 17 minutes, 19 seconds.

## Growing trees.. Progress: 17%. Estimated remaining time: 16 minutes, 36 seconds.

## Growing trees.. Progress: 19%. Estimated remaining time: 16 minutes, 1 seconds.

## Growing trees.. Progress: 22%. Estimated remaining time: 15 minutes, 27 seconds.

## Growing trees.. Progress: 25%. Estimated remaining time: 14 minutes, 51 seconds.

## Growing trees.. Progress: 28%. Estimated remaining time: 14 minutes, 17 seconds.

## Growing trees.. Progress: 30%. Estimated remaining time: 13 minutes, 41 seconds.

## Growing trees.. Progress: 33%. Estimated remaining time: 13 minutes, 8 seconds.

## Growing trees.. Progress: 36%. Estimated remaining time: 12 minutes, 35 seconds.

## Growing trees.. Progress: 39%. Estimated remaining time: 12 minutes, 2 seconds.

## Growing trees.. Progress: 42%. Estimated remaining time: 11 minutes, 29 seconds.

## Growing trees.. Progress: 44%. Estimated remaining time: 10 minutes, 57 seconds.

## Growing trees.. Progress: 47%. Estimated remaining time: 10 minutes, 25 seconds.

## Growing trees.. Progress: 49%. Estimated remaining time: 10 minutes, 4 seconds.

## Growing trees.. Progress: 52%. Estimated remaining time: 9 minutes, 45 seconds.

## Growing trees.. Progress: 54%. Estimated remaining time: 9 minutes, 19 seconds.

## Growing trees.. Progress: 57%. Estimated remaining time: 8 minutes, 44 seconds.

## Growing trees.. Progress: 59%. Estimated remaining time: 8 minutes, 11 seconds.

## Growing trees.. Progress: 62%. Estimated remaining time: 7 minutes, 41 seconds.

## Growing trees.. Progress: 65%. Estimated remaining time: 7 minutes, 7 seconds.

## Growing trees.. Progress: 67%. Estimated remaining time: 6 minutes, 39 seconds.

## Growing trees.. Progress: 70%. Estimated remaining time: 6 minutes, 11 seconds.

## Growing trees.. Progress: 72%. Estimated remaining time: 5 minutes, 38 seconds.

## Growing trees.. Progress: 75%. Estimated remaining time: 5 minutes, 3 seconds.

## Growing trees.. Progress: 78%. Estimated remaining time: 4 minutes, 29 seconds.

## Growing trees.. Progress: 80%. Estimated remaining time: 3 minutes, 59 seconds.

## Growing trees.. Progress: 83%. Estimated remaining time: 3 minutes, 26 seconds.

## Growing trees.. Progress: 86%. Estimated remaining time: 2 minutes, 52 seconds.

## Growing trees.. Progress: 89%. Estimated remaining time: 2 minutes, 18 seconds.

## Growing trees.. Progress: 91%. Estimated remaining time: 1 minute, 44 seconds.

## Growing trees.. Progress: 94%. Estimated remaining time: 1 minute, 10 seconds.

## Growing trees.. Progress: 97%. Estimated remaining time: 36 seconds.

## Growing trees.. Progress: 100%. Estimated remaining time: 2 seconds.

pred\_rf = predict(mdl\_rf, test)

mse(pred\_rf$predictions, test\_y)

## [1] 0.397223

# try SVM

mdl\_svm = svm(V281 ~ V52 + V55 + V61 + V51 + V54 + V21 + V6 + V10, data = train, kernel = "radial", cost = 2, gamma = 0.25)

pred\_svm = predict(mdl\_svm, test)

mse(pred\_svm, test\_y)

## [1] 0.4454636

# try XGboost

mdl\_xgb = xgboost(data = train\_xgb, nround = 750, nthread = 4, max\_depth = 6, eta = 0.025, subsample = 0.7, gamma = 3)

## [1] train-rmse:1.123211

## [2] train-rmse:1.105587

## [3] train-rmse:1.088751

## [4] train-rmse:1.072364

## [5] train-rmse:1.056541

## [6] train-rmse:1.041299

## [7] train-rmse:1.026474

## [8] train-rmse:1.012151

## [9] train-rmse:0.998236

## [10] train-rmse:0.984944

## [11] train-rmse:0.972046

## [12] train-rmse:0.959660

## [13] train-rmse:0.947695

## [14] train-rmse:0.936049

## [15] train-rmse:0.924799

## [16] train-rmse:0.913825

## [17] train-rmse:0.903303

## [18] train-rmse:0.893156

## [19] train-rmse:0.883414

## [20] train-rmse:0.874059

## [21] train-rmse:0.865047

## [22] train-rmse:0.856306

## [23] train-rmse:0.848055

## [24] train-rmse:0.840064

## [25] train-rmse:0.832164

## [26] train-rmse:0.824686

## [27] train-rmse:0.817432

## [28] train-rmse:0.810481

## [29] train-rmse:0.803617

## [30] train-rmse:0.797115

## [31] train-rmse:0.790814

## [32] train-rmse:0.784595

## [33] train-rmse:0.778755

## [34] train-rmse:0.773094

## [35] train-rmse:0.767748

## [36] train-rmse:0.762395

## [37] train-rmse:0.757345

## [38] train-rmse:0.752488

## [39] train-rmse:0.747817

## [40] train-rmse:0.743399

## [41] train-rmse:0.739041

## [42] train-rmse:0.734814

## [43] train-rmse:0.730827

## [44] train-rmse:0.726892

## [45] train-rmse:0.723121

## [46] train-rmse:0.719583

## [47] train-rmse:0.716088

## [48] train-rmse:0.712764

## [49] train-rmse:0.709580

## [50] train-rmse:0.706472

## [51] train-rmse:0.703511

## [52] train-rmse:0.700691

## [53] train-rmse:0.697894

## [54] train-rmse:0.695273

## [55] train-rmse:0.692620

## [56] train-rmse:0.690116

## [57] train-rmse:0.687650

## [58] train-rmse:0.685264

## [59] train-rmse:0.683066

## [60] train-rmse:0.680842

## [61] train-rmse:0.678713

## [62] train-rmse:0.676759

## [63] train-rmse:0.674839

## [64] train-rmse:0.672873

## [65] train-rmse:0.671013

## [66] train-rmse:0.669334

## [67] train-rmse:0.667636

## [68] train-rmse:0.665990

## [69] train-rmse:0.664497

## [70] train-rmse:0.662978

## [71] train-rmse:0.661438

## [72] train-rmse:0.659984

## [73] train-rmse:0.658645

## [74] train-rmse:0.657361

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## [462] train-rmse:0.572225

## [463] train-rmse:0.572164

## [464] train-rmse:0.572049

## [465] train-rmse:0.571998

## [466] train-rmse:0.571910

## [467] train-rmse:0.571850

## [468] train-rmse:0.571795

## [469] train-rmse:0.571724

## [470] train-rmse:0.571706

## [471] train-rmse:0.571653

## [472] train-rmse:0.571525

## [473] train-rmse:0.571452

## [474] train-rmse:0.571361

## [475] train-rmse:0.571296

## [476] train-rmse:0.571231

## [477] train-rmse:0.571131

## [478] train-rmse:0.571033

## [479] train-rmse:0.570871

## [480] train-rmse:0.570778

## [481] train-rmse:0.570702

## [482] train-rmse:0.570683

## [483] train-rmse:0.570646

## [484] train-rmse:0.570574

## [485] train-rmse:0.570507

## [486] train-rmse:0.570464

## [487] train-rmse:0.570412

## [488] train-rmse:0.570293

## [489] train-rmse:0.570253

## [490] train-rmse:0.570198

## [491] train-rmse:0.570159

## [492] train-rmse:0.569999

## [493] train-rmse:0.569918

## [494] train-rmse:0.569878

## [495] train-rmse:0.569785

## [496] train-rmse:0.569762

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## [507] train-rmse:0.568645

## [508] train-rmse:0.568599

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## [510] train-rmse:0.568325

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## [523] train-rmse:0.567534

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## [542] train-rmse:0.566002

## [543] train-rmse:0.565902

## [544] train-rmse:0.565860

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## [546] train-rmse:0.565777

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## [553] train-rmse:0.565163

## [554] train-rmse:0.565128

## [555] train-rmse:0.565094

## [556] train-rmse:0.565016

## [557] train-rmse:0.564951

## [558] train-rmse:0.564919

## [559] train-rmse:0.564887

## [560] train-rmse:0.564845

## [561] train-rmse:0.564843

## [562] train-rmse:0.564814

## [563] train-rmse:0.564748

## [564] train-rmse:0.564695

## [565] train-rmse:0.564633

## [566] train-rmse:0.564608

## [567] train-rmse:0.564497

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## [729] train-rmse:0.554499

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## [734] train-rmse:0.554298

## [735] train-rmse:0.554248

## [736] train-rmse:0.554165

## [737] train-rmse:0.554048

## [738] train-rmse:0.553964

## [739] train-rmse:0.553785

## [740] train-rmse:0.553774

## [741] train-rmse:0.553748

## [742] train-rmse:0.553698

## [743] train-rmse:0.553636

## [744] train-rmse:0.553566

## [745] train-rmse:0.553554

## [746] train-rmse:0.553521

## [747] train-rmse:0.553512

## [748] train-rmse:0.553420

## [749] train-rmse:0.553361

## [750] train-rmse:0.553349

pred\_xgb = predict(mdl\_xgb, test\_xgb)

mse(pred\_xgb, test\_y)

## [1] 0.3820247

### Stacked Generalization ###

library(data.table)

library(foreach)

library(MatrixModels)

library(e1071)

library(FNN)

library(glmnet)

library(ranger)

library(xgboost)

# load and combine dataset

train = fread("BlogFeedback-Train.csv")

test = fread("BlogFeedback-Test.csv")

# error measure

mse = function(y\_hat, y) {

mse = mean((y - y\_hat)^2)

return(mse)

}

# create design matrices

test\_x = model.Matrix(V281 ~ . - 1, data = test, sparse = F)

test\_x\_sparse = model.Matrix(V281 ~ . - 1, data = test, sparse = T)

#test\_xgb = xgb.DMatrix(data = as.matrix(test\_x), label = test\_y)

train\_y = train$V281

test\_y = test$V281

# divide training set into k folds

k = 5

cv\_index = 1:nrow(train)

cv\_index\_split = split(cv\_index, cut(seq\_along(cv\_index), k, labels = FALSE))

# meta features from kNN

meta\_knn\_test = rep(0, nrow(test))

meta\_knn\_train = foreach(i = 1:k, .combine = c) %do% {

# split the raining set into two disjoint sets

train\_index = setdiff(1:nrow(train), cv\_index\_split[[i]])

train\_set1 = model.Matrix(V281 ~ . - 1, data = train[train\_index], sparse = T)

train\_set2 = model.Matrix(V281 ~ . - 1, data = train[cv\_index\_split[[i]]], sparse = T)

# level 0 prediction

meta\_pred = knn.reg(train\_set1, train\_set2, train[train\_index]$V281, k = 19)$pred

meta\_knn\_test = meta\_knn\_test + knn.reg(train\_set1, test\_x\_sparse, train[train\_index]$V281, k = 19)$pred / k

return(meta\_pred)

}

# meta features from LASSO

meta\_glm\_test = rep(0, nrow(test))

meta\_glm\_train = foreach(i = 1:k, .combine = c) %do% {

# split the raining set into two disjoint sets

train\_index = setdiff(1:nrow(train), cv\_index\_split[[i]])

train\_set1 = model.Matrix(V281 ~ . - 1, data = train[train\_index], sparse = T)

train\_set2 = model.Matrix(V281 ~ . - 1, data = train[cv\_index\_split[[i]]], sparse = T)

# level 0 prediction

temp\_glm = cv.glmnet(train\_set1, train[train\_index]$V281, family = "gaussian", alpha = 1)

meta\_pred = predict(temp\_glm, newx = train\_set2)

meta\_glm\_test = meta\_glm\_test + predict(temp\_glm, newx = test\_x\_sparse) / k

return(meta\_pred)

}

# meta features from SVM

meta\_svm\_test = rep(0, nrow(test))

meta\_svm\_train = foreach(i = 1:k, .combine = c) %do% {

# split the raining set into two disjoint sets

train\_index = setdiff(1:nrow(train), cv\_index\_split[[i]])

train\_set1 = train[train\_index]

train\_set2 = train[cv\_index\_split[[i]]]

# level 0 prediction

temp\_svm = svm(V281 ~ V52 + V55 + V61 + V51 + V54 + V21 + V6 + V10, data = train\_set1,

kernel = "radial", cost = 2, gamma = 0.25)

meta\_pred = predict(temp\_svm, train\_set2)

meta\_svm\_test = meta\_svm\_test + predict(temp\_svm, test) / k

return(meta\_pred)

}

# meta features from random forest

meta\_rf\_test = rep(0, nrow(test))

meta\_rf\_train = foreach(i = 1:k, .combine = c) %do% {

# split the raining set into two disjoint sets

train\_index = setdiff(1:nrow(train), cv\_index\_split[[i]])

train\_set1 = train[train\_index]

train\_set2 = train[cv\_index\_split[[i]]]

# level 0 prediction

temp\_rf = ranger(V281 ~ ., data = train\_set1, num.trees = 500, mtry = 120, write.forest = T)

meta\_pred = predict(temp\_rf, train\_set2)$predictions

meta\_rf\_test = meta\_rf\_test + predict(temp\_rf, test)$predictions / k

return(meta\_pred)

}

## Growing trees.. Progress: 7%. Estimated remaining time: 7 minutes, 18 seconds.

## Growing trees.. Progress: 14%. Estimated remaining time: 6 minutes, 33 seconds.

## Growing trees.. Progress: 21%. Estimated remaining time: 5 minutes, 57 seconds.

## Growing trees.. Progress: 28%. Estimated remaining time: 5 minutes, 25 seconds.

## Growing trees.. Progress: 35%. Estimated remaining time: 4 minutes, 51 seconds.

## Growing trees.. Progress: 43%. Estimated remaining time: 4 minutes, 18 seconds.

## Growing trees.. Progress: 50%. Estimated remaining time: 3 minutes, 45 seconds.

## Growing trees.. Progress: 57%. Estimated remaining time: 3 minutes, 13 seconds.

## Growing trees.. Progress: 64%. Estimated remaining time: 2 minutes, 40 seconds.

## Growing trees.. Progress: 71%. Estimated remaining time: 2 minutes, 8 seconds.

## Growing trees.. Progress: 79%. Estimated remaining time: 1 minute, 36 seconds.

## Growing trees.. Progress: 86%. Estimated remaining time: 1 minute, 3 seconds.

## Growing trees.. Progress: 93%. Estimated remaining time: 31 seconds.

## Growing trees.. Progress: 7%. Estimated remaining time: 7 minutes, 18 seconds.

## Growing trees.. Progress: 14%. Estimated remaining time: 6 minutes, 33 seconds.

## Growing trees.. Progress: 21%. Estimated remaining time: 5 minutes, 57 seconds.

## Growing trees.. Progress: 28%. Estimated remaining time: 5 minutes, 26 seconds.

## Growing trees.. Progress: 35%. Estimated remaining time: 4 minutes, 56 seconds.

## Growing trees.. Progress: 41%. Estimated remaining time: 4 minutes, 31 seconds.

## Growing trees.. Progress: 48%. Estimated remaining time: 3 minutes, 58 seconds.

## Growing trees.. Progress: 55%. Estimated remaining time: 3 minutes, 24 seconds.

## Growing trees.. Progress: 62%. Estimated remaining time: 2 minutes, 51 seconds.

## Growing trees.. Progress: 70%. Estimated remaining time: 2 minutes, 18 seconds.

## Growing trees.. Progress: 77%. Estimated remaining time: 1 minute, 46 seconds.

## Growing trees.. Progress: 84%. Estimated remaining time: 1 minute, 13 seconds.

## Growing trees.. Progress: 91%. Estimated remaining time: 40 seconds.

## Growing trees.. Progress: 98%. Estimated remaining time: 8 seconds.

## Growing trees.. Progress: 7%. Estimated remaining time: 6 minutes, 51 seconds.

## Growing trees.. Progress: 14%. Estimated remaining time: 6 minutes, 20 seconds.

## Growing trees.. Progress: 21%. Estimated remaining time: 5 minutes, 45 seconds.

## Growing trees.. Progress: 29%. Estimated remaining time: 5 minutes, 9 seconds.

## Growing trees.. Progress: 36%. Estimated remaining time: 4 minutes, 39 seconds.

## Growing trees.. Progress: 43%. Estimated remaining time: 4 minutes, 8 seconds.

## Growing trees.. Progress: 51%. Estimated remaining time: 3 minutes, 34 seconds.

## Growing trees.. Progress: 58%. Estimated remaining time: 3 minutes, 3 seconds.

## Growing trees.. Progress: 65%. Estimated remaining time: 2 minutes, 33 seconds.

## Growing trees.. Progress: 71%. Estimated remaining time: 2 minutes, 5 seconds.

## Growing trees.. Progress: 78%. Estimated remaining time: 1 minute, 35 seconds.

## Growing trees.. Progress: 86%. Estimated remaining time: 1 minute, 2 seconds.

## Growing trees.. Progress: 93%. Estimated remaining time: 31 seconds.

## Growing trees.. Progress: 100%. Estimated remaining time: 0 seconds.

## Growing trees.. Progress: 7%. Estimated remaining time: 7 minutes, 32 seconds.

## Growing trees.. Progress: 14%. Estimated remaining time: 6 minutes, 46 seconds.

## Growing trees.. Progress: 21%. Estimated remaining time: 6 minutes, 4 seconds.

## Growing trees.. Progress: 28%. Estimated remaining time: 5 minutes, 33 seconds.

## Growing trees.. Progress: 35%. Estimated remaining time: 4 minutes, 57 seconds.

## Growing trees.. Progress: 43%. Estimated remaining time: 4 minutes, 22 seconds.

## Growing trees.. Progress: 50%. Estimated remaining time: 3 minutes, 51 seconds.

## Growing trees.. Progress: 57%. Estimated remaining time: 3 minutes, 18 seconds.

## Growing trees.. Progress: 63%. Estimated remaining time: 2 minutes, 47 seconds.

## Growing trees.. Progress: 70%. Estimated remaining time: 2 minutes, 15 seconds.

## Growing trees.. Progress: 77%. Estimated remaining time: 1 minute, 44 seconds.

## Growing trees.. Progress: 84%. Estimated remaining time: 1 minute, 14 seconds.

## Growing trees.. Progress: 91%. Estimated remaining time: 43 seconds.

## Growing trees.. Progress: 98%. Estimated remaining time: 11 seconds.

## Growing trees.. Progress: 7%. Estimated remaining time: 7 minutes, 32 seconds.

## Growing trees.. Progress: 14%. Estimated remaining time: 6 minutes, 46 seconds.

## Growing trees.. Progress: 20%. Estimated remaining time: 6 minutes, 19 seconds.

## Growing trees.. Progress: 27%. Estimated remaining time: 5 minutes, 39 seconds.

## Growing trees.. Progress: 34%. Estimated remaining time: 5 minutes, 7 seconds.

## Growing trees.. Progress: 41%. Estimated remaining time: 4 minutes, 36 seconds.

## Growing trees.. Progress: 48%. Estimated remaining time: 4 minutes, 1 seconds.

## Growing trees.. Progress: 55%. Estimated remaining time: 3 minutes, 28 seconds.

## Growing trees.. Progress: 62%. Estimated remaining time: 2 minutes, 54 seconds.

## Growing trees.. Progress: 69%. Estimated remaining time: 2 minutes, 23 seconds.

## Growing trees.. Progress: 76%. Estimated remaining time: 1 minute, 52 seconds.

## Growing trees.. Progress: 83%. Estimated remaining time: 1 minute, 18 seconds.

## Growing trees.. Progress: 90%. Estimated remaining time: 46 seconds.

## Growing trees.. Progress: 97%. Estimated remaining time: 14 seconds.

# meta features from XGBoost

meta\_xgb\_test = rep(0, nrow(test))

meta\_xgb\_train = foreach(i = 1:k, .combine = c) %do% {

# split the raining set into two disjoint sets

train\_index = setdiff(1:nrow(train), cv\_index\_split[[i]])

train\_set1 = model.Matrix(V281 ~ . - 1, data = train[train\_index], sparse = F)

train\_set2 = model.Matrix(V281 ~ . - 1, data = train[cv\_index\_split[[i]]], sparse = F)

# xgb data

train\_set1\_xgb = xgb.DMatrix(data = as.matrix(train\_set1), label = train[train\_index]$V281)

train\_set2\_xgb = xgb.DMatrix(data = as.matrix(train\_set2), label = train[cv\_index\_split[[i]]]$V281)

# level 0 prediction

temp\_xgb = xgboost(data = train\_set1\_xgb, nround = 750, nthread = 4, max\_depth = 6, eta = 0.025, subsample = 0.7, gamma = 3)

meta\_pred = predict(temp\_xgb, train\_set2\_xgb)

meta\_xgb\_test = meta\_xgb\_test + predict(temp\_xgb, test\_xgb) / k

return(meta\_pred)

}

## [1] train-rmse:1.041304

## [2] train-rmse:1.025138

## [3] train-rmse:1.009468

## [4] train-rmse:0.994396

## [5] train-rmse:0.979805

## [6] train-rmse:0.965819

## [7] train-rmse:0.952242

## [8] train-rmse:0.938961

## [9] train-rmse:0.926142

## [10] train-rmse:0.913679

## [11] train-rmse:0.901632

## [12] train-rmse:0.890118

## [13] train-rmse:0.879104

## [14] train-rmse:0.868265

## [15] train-rmse:0.857938

## [16] train-rmse:0.847930

## [17] train-rmse:0.838117

## [18] train-rmse:0.828828

## [19] train-rmse:0.819844

## [20] train-rmse:0.811192

## [21] train-rmse:0.802804

## [22] train-rmse:0.794738

## [23] train-rmse:0.786939

## [24] train-rmse:0.779281

## [25] train-rmse:0.772032

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# combine meta features

sg\_col = c("meta\_knn", "meta\_glm", "meta\_svm", "meta\_rf", "meta\_xgb", "y")

train\_sg = data.frame(meta\_knn\_train, meta\_glm\_train, meta\_svm\_train, meta\_rf\_train, meta\_xgb\_train, train\_y)

test\_sg = data.frame(meta\_knn\_test, meta\_glm\_test, meta\_svm\_test, meta\_rf\_test, meta\_xgb\_test, test\_y)

colnames(train\_sg) = sg\_col

colnames(test\_sg) = sg\_col

# ensemble with elastic-net regression

train\_sg\_sparse = model.Matrix(y ~ . - 1, data = train\_sg, sparse = T)

test\_sg\_sparse = model.Matrix(y ~ . - 1, data = test\_sg, sparse = T)

mdl\_glm = cv.glmnet(train\_sg\_sparse, train\_y, family = "gaussian", alpha = 0.2)

pred\_glm = predict(mdl\_glm, newx = test\_sg\_sparse, s = "lambda.min")

mse(pred\_glm, test\_y)

## [1] 0.3840147

library(data.table)

library(foreach)

library(MatrixModels)

library(xgboost)

library(ranger)

# load and combine dataset

train = fread("BlogFeedback-Train.csv")

test = fread("BlogFeedback-Test.csv")

# error measure

mse = function(y\_hat, y) { mse = mean((y - y\_hat)^2)

return(mse)}

# create design matrices

train\_x = model.Matrix(V281 ~ . - 1, data = train, sparse = F)

train\_y = train$V281

test\_x = model.Matrix(V281 ~ . - 1, data = test, sparse = F)

test\_y = test$V281

train\_xgb = xgb.DMatrix(data = as.matrix(train\_x), label = train\_y)

test\_xgb = xgb.DMatrix(data = as.matrix(test\_x), label = test\_y)

# number of models

n = 5

# fit XGBoost

pred\_xgb = foreach(i = 1:n, .combine = cbind) %do% { mdl\_xgb = xgboost(data = train\_xgb, nround = 750, nthread = 4, max\_depth = 6, eta = 0.025, subsample = 0.7, gamma = 3)

return(predict(mdl\_xgb, test\_xgb))}

# fit random forest

pred\_rf = foreach(i = 1:n, .combine = cbind) %do% { mdl\_rf = ranger(V281 ~ ., data = train, num.trees = 1000, mtry = 120, write.forest = T)

return(predict(mdl\_rf, test)$predictions)}

# weighted average

mse(rowMeans(pred\_rf) \* 0.25 + rowMeans(pred\_xgb) \* 0.75, test\_y)

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[748] train-rmse:0.552741

[749] train-rmse:0.552729

[750] train-rmse:0.552696

Growing trees.. Progress: 1%. Estimated remaining time: 48 minutes, 5 seconds.

Growing trees.. Progress: 3%. Estimated remaining time: 42 minutes, 2 seconds.

Growing trees.. Progress: 4%. Estimated remaining time: 41 minutes, 42 seconds.

Growing trees.. Progress: 6%. Estimated remaining time: 39 minutes, 48 seconds.

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Growing trees.. Progress: 82%. Estimated remaining time: 7 minutes, 30 seconds.

Growing trees.. Progress: 83%. Estimated remaining time: 6 minutes, 58 seconds.

Growing trees.. Progress: 84%. Estimated remaining time: 6 minutes, 24 seconds.

Growing trees.. Progress: 86%. Estimated remaining time: 5 minutes, 52 seconds.

Growing trees.. Progress: 87%. Estimated remaining time: 5 minutes, 20 seconds.

Growing trees.. Progress: 88%. Estimated remaining time: 4 minutes, 43 seconds.

Growing trees.. Progress: 90%. Estimated remaining time: 4 minutes, 12 seconds.

Growing trees.. Progress: 91%. Estimated remaining time: 3 minutes, 35 seconds.

Growing trees.. Progress: 93%. Estimated remaining time: 3 minutes, 3 seconds.

Growing trees.. Progress: 94%. Estimated remaining time: 2 minutes, 26 seconds.

Growing trees.. Progress: 95%. Estimated remaining time: 1 minute, 55 seconds.

Growing trees.. Progress: 97%. Estimated remaining time: 1 minute, 20 seconds.

Growing trees.. Progress: 98%. Estimated remaining time: 48 seconds.

Growing trees.. Progress: 99%. Estimated remaining time: 17 seconds.

[1] 0.3810031

Basic testing model

Model

Error

k-NN

0.638315

LASSO

0.635483

SVM

0.445464

Random Forest

0.396741

Boosting

0.382399

Weighted Average

Model

Error

Best RF

0.396415

Best BST

0.382642

Mean RF

0.396803

Mean BST

0.382934

Best RF + BST

0.380572

Mean RF + BST

0.381167

Stacked Generalization

1. Split the training dataset in to k folds.

2. For i-th fold of training data, train models with each of the level-0 learners on the rest of the training data.

3. Make predictions using the models we trained:

\* make predictions on i-th fold of data.

\* make predictions on the test set.

4. Repeat 2. and 3. until we used all k folds of training data.

5. Generate the level-1 data using predictions we obtained:

\* generate level-1 training data by concatenating the predictions we made on each fold of the training data.

\* generate level-1 test data by averaging the predictions we made on the test set.

6. Train a level-1 generalizer using the level-1 data and the correct responses, make predictions.

Model

Error

LV-1 k-NN

0.631110

LV-1 LASSO

0.624957

LV-1 SVM

0.443895

LV-1 RF

0.393018

LV-1 BST

0.379804

Stacked

0.382274

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the Knit button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

Sum9mary(cars)

## speed dist

## Min. : 4.0 Min. : 2.00

## 1st Qu.:12.0 1st Qu.: 26.00

## Median :15.0 Median : 36.00

## Mean :15.4 Mean : 42.98

## 3rd Qu.:19.0 3rd Qu.: 56.00

## Max. :25.0 Max. :120.00

Including Plots

You can also embed plots, for example:

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

#c. Visualize the dataset and make inferences from that

#d. Perform any 3 hypothesis tests using columns of your choice, make conclusions

#e. Create a linear regression model to predict the number of comments in the next 24 hours (relative to basetime)

library(ISLR)

train\_sg <- read.csv("Analysis data/train\_sg.csv")

test\_sg <- read.csv("Analysis data/test\_sg.csv")

View(train\_sg)

View(test\_sg)

str(train\_sg)

## 'data.frame': 52397 obs. of 8 variables:

## $ X : int 1 2 3 4 5 6 7 8 9 10 ...

## $ meta\_knn : num 0.814 0.781 0.781 0.814 0.781 ...

## $ meta\_glm : num 0.801 0.517 0.517 0.801 0.483 ...

## $ meta\_svm : num 1.023 0.307 0.307 1.023 0.245 ...

## $ meta\_rf : num 1.071 0.325 0.325 1.071 0.189 ...

## $ meta\_xgb : num 1.033 0.447 0.447 1.033 0.252 ...

## $ y : num 0.693 0 0 0.693 3.332 ...

## $ predicted: num 0.841 0.421 0.421 0.841 0.345 ...

str(test\_sg)

## 'data.frame': 7624 obs. of 7 variables:

## $ X : int 1 2 3 4 5 6 7 8 9 10 ...

## $ meta\_knn: num 1.512 0.3 0.073 0.91 0.105 ...

## $ meta\_glm: num 0.942 0.273 0.672 0.904 0.699 ...

## $ meta\_svm: num 2.2461 0.0626 0.1968 1.2284 0.7475 ...

## $ meta\_rf : num 2.379 0.21 0.572 1.558 0.625 ...

## $ meta\_xgb: num 2.228 0.144 0.457 1.38 0.626 ...

## $ y : num 1.609 0 0.693 1.792 0 ...

write.csv(train\_sg,'c:/users/seshan/Desktop/BlogFeedback/Analysis data/train\_sg2.csv')

write.csv(test\_sg,'c:/users/seshan/Desktop/BlogFeedback/Analysis data/test\_sg2.csv')

pairs(train\_sg)

pairs(test\_sg)

hist(train\_sg$y,col='red')

hist(train\_sg$meta\_rf,col="purple")

library(tree)

tree.train\_sg<-tree(meta\_knn~.-meta\_rf,train\_sg)

summary(tree.train\_sg)

##

## Regression tree:

## tree(formula = meta\_knn ~ . - meta\_rf, data = train\_sg)

## Variables actually used in tree construction:

## [1] "meta\_glm" "predicted" "X"

## Number of terminal nodes: 7

## Residual mean deviance: 0.2107 = 11040 / 52390

## Distribution of residuals:

## Min. 1st Qu. Median Mean 3rd Qu. Max.

## -2.58400 -0.24930 -0.08339 0.00000 0.18070 2.95500

hist(test\_sg$y,col='green')

hist(test\_sg$meta\_rf,col="yellow")

tree.test\_sg<-tree(meta\_knn~.-meta\_rf,test\_sg)

summary(tree.test\_sg)

##

## Regression tree:

## tree(formula = meta\_knn ~ . - meta\_rf, data = test\_sg)

## Variables actually used in tree construction:

## [1] "meta\_svm" "meta\_xgb" "meta\_glm"

## Number of terminal nodes: 8

## Residual mean deviance: 0.1209 = 920.6 / 7616

## Distribution of residuals:

## Min. 1st Qu. Median Mean 3rd Qu. Max.

## -2.01700 -0.18530 -0.04892 0.00000 0.13930 2.38200

plot(tree.train\_sg)

text(tree.train\_sg,pretty = 0)

tree.train\_sg

## node), split, n, deviance, yval

## \* denotes terminal node

##

## 1) root 52397 29010.0 0.6265

## 2) meta\_glm < 1.25744 46493 12670.0 0.4686

## 4) predicted < 0.448852 28364 3030.0 0.2755

## 8) predicted < 0.294499 13468 598.3 0.1431 \*

## 9) predicted > 0.294499 14896 1982.0 0.3953 \*

## 5) predicted > 0.448852 18129 6924.0 0.7708

## 10) X < 6665 3792 2757.0 1.2540

## 20) X < 4486.5 2527 437.5 0.8412 \*

## 21) X > 4486.5 1265 1029.0 2.0780 \*

## 11) X > 6665 14337 3047.0 0.6430 \*

## 3) meta\_glm > 1.25744 5904 6060.0 1.8690

## 6) meta\_glm < 3.29117 4543 2705.0 1.5420 \*

## 7) meta\_glm > 3.29117 1361 1238.0 2.9630 \*

plot(tree.test\_sg)

text(tree.test\_sg,pretty = 0)

tree.test\_sg

## node), split, n, deviance, yval

## \* denotes terminal node

##

## 1) root 7624 3179.00 0.51330

## 2) meta\_svm < 1.22398 6620 1010.00 0.34550

## 4) meta\_xgb < 0.206352 4021 235.20 0.16700

## 8) meta\_xgb < 0.0319178 1953 31.75 0.06049 \*

## 9) meta\_xgb > 0.0319178 2068 160.40 0.26750 \*

## 5) meta\_xgb > 0.206352 2599 448.70 0.62170

## 10) meta\_glm < 0.884417 2086 260.40 0.53170 \*

## 11) meta\_glm > 0.884417 513 102.80 0.98740 \*

## 3) meta\_svm > 1.22398 1004 752.10 1.62000

## 6) meta\_glm < 2.30088 794 308.20 1.35400

## 12) meta\_glm < 1.55264 552 192.40 1.20200 \*

## 13) meta\_glm > 1.55264 242 74.04 1.70000 \*

## 7) meta\_glm > 2.30088 210 175.10 2.62600

## 14) meta\_svm < 4.19644 182 79.30 2.39000 \*

## 15) meta\_svm > 4.19644 28 19.50 4.16300 \*

t.test(train\_sg$meta\_knn,mu=0.6)

##

## One Sample t-test

##

## data: train\_sg$meta\_knn

## t = 8.1469, df = 52396, p-value = 3.816e-16

## alternative hypothesis: true mean is not equal to 0.6

## 95 percent confidence interval:

## 0.6201103 0.6328522

## sample estimates:

## mean of x

## 0.6264813

t.test(train\_sg$meta\_rf, mu=0.7)

##

## One Sample t-test

##

## data: train\_sg$meta\_rf

## t = -2.7086, df = 52396, p-value = 0.006758

## alternative hypothesis: true mean is not equal to 0.7

## 95 percent confidence interval:

## 0.6815865 0.6970473

## sample estimates:

## mean of x

## 0.6893169

t.test(train\_sg$meta\_rf,mu=0.5,conf.level =0.80 )

##

## One Sample t-test

##

## data: train\_sg$meta\_rf

## t = 48.001, df = 52396, p-value < 2.2e-16

## alternative hypothesis: true mean is not equal to 0.5

## 80 percent confidence interval:

## 0.6842624 0.6943715

## sample estimates:

## mean of x

## 0.6893169

t.test(train\_sg$y, mu=0.5)

##

## One Sample t-test

##

## data: train\_sg$y

## t = 28.673, df = 52396, p-value < 2.2e-16

## alternative hypothesis: true mean is not equal to 0.5

## 95 percent confidence interval:

## 0.6321481 0.6515403

## sample estimates:

## mean of x

## 0.6418442

t.test(test\_sg$meta\_knn,mu=0.6)

##

## One Sample t-test

##

## data: test\_sg$meta\_knn

## t = -11.721, df = 7623, p-value < 2.2e-16

## alternative hypothesis: true mean is not equal to 0.6

## 95 percent confidence interval:

## 0.4988219 0.5278157

## sample estimates:

## mean of x

## 0.5133188

t.test(test\_sg$meta\_rf, mu=0.7)

##

## One Sample t-test

##

## data: test\_sg$meta\_rf

## t = -15.224, df = 7623, p-value < 2.2e-16

## alternative hypothesis: true mean is not equal to 0.7

## 95 percent confidence interval:

## 0.5371179 0.5742784

## sample estimates:

## mean of x

## 0.5556982

t.test(test\_sg$meta\_rf,mu=0.5,conf.level =0.80 )

##

## One Sample t-test

##

## data: test\_sg$meta\_rf

## t = 5.8763, df = 7623, p-value = 4.371e-09

## alternative hypothesis: true mean is not equal to 0.5

## 80 percent confidence interval:

## 0.5435501 0.5678462

## sample estimates:

## mean of x

## 0.5556982

t.test(test\_sg$y, mu=0.5)

##

## One Sample t-test

##

## data: test\_sg$y

## t = 2.6961, df = 7623, p-value = 0.007032

## alternative hypothesis: true mean is not equal to 0.5

## 95 percent confidence interval:

## 0.5088693 0.5561278

## sample estimates:

## mean of x

## 0.5324985

plot(train\_sg$meta\_knn,train\_sg$meta\_rf)

cor(train\_sg$meta\_knn,train\_sg$meta\_rf)

## [1] 0.6833799

mod<-lm(train\_sg$meta\_knn~train\_sg$meta\_rf)

summary(mod)

##

## Call:

## lm(formula = train\_sg$meta\_knn ~ train\_sg$meta\_rf)

##

## Residuals:

## Min 1Q Median 3Q Max

## -2.2820 -0.2547 -0.1302 0.1686 3.6672

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 0.238255 0.002986 79.8 <2e-16 \*\*\*

## train\_sg$meta\_rf 0.563204 0.002629 214.3 <2e-16 \*\*\*

## ---

## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##

## Residual standard error: 0.5432 on 52395 degrees of freedom

## Multiple R-squared: 0.467, Adjusted R-squared: 0.467

## F-statistic: 4.591e+04 on 1 and 52395 DF, p-value: < 2.2e-16

predict(mod)

## 1 2 3 4 5 6 7

## 0.8414068 0.4213149 0.4213149 0.8414068 0.3447891 0.3042990 0.3042990

## 8 9 10 11 12 13 14

## 0.3447891 1.1565913 1.1565913 0.4424957 0.3118176 2.2845929 0.2823919

## 15 16 17 18 19 20 21

## 2.1216459 0.9837625 0.4979952 0.9837625 2.1216459 1.0155111 1.0794422

## 22 23 24 25 26 27 28

## 0.4839055 1.0794422 1.0155111 0.4176054 1.0800593 1.0800593 0.4176054

## 29 30 31 32 33 34 35

## 0.6383645 0.6383645 0.4284125 0.4284125 0.7057421 0.7057421 1.9423982

## 36 37 38 39 40 41 42

## 0.4338347 0.4338347 1.2599549 0.4338347 0.2857556 0.2857556 0.5220561

## 43 44 45 46 47 48 49

## 0.2857556 0.2905905 0.2905905 0.2905905 1.2852160 1.0791965 1.0774898

## 50 51 52 53 54 55 56

## 0.6423621 0.6423621 0.6423621 0.3315403 0.3315403 0.3315403 0.3151083

## 57 58 59 60 61 62 63

## 0.3151083 0.3151083 1.4803724 0.8005108 0.4980541 1.4060976 1.4060976

## 64 65 66 67 68 69 70

## 0.4674617 0.4674617 0.4569044 0.4569044 1.0624392 1.7475782 1.0624392

## 71 72 73 74 75 76 77

## 0.7878870 1.0952086 0.7878870 0.3933332 0.4143871 0.3933332 0.9327907

## 78 79 80 81 82 83 84

## 0.7552861 0.3790611 1.6547373 1.1867644 0.5011195 1.0527874 1.9045307

## 85 86 87 88 89 90 91

## 0.8749275 1.9045307 0.7128375 0.7483377 0.7128375 0.7855239 0.7855239

## 92 93 94 95 96 97 98

## 2.3291713 2.3291713 0.4924995 0.4924995 0.3939384 0.3939384 0.4889215

## 99 100 101 102 103 104 105

## 0.4889215 0.6687626 0.6687626 0.6098243 0.6098243 1.7697807 1.3328000

## 106 107 108 109 110 111 112

## 0.6065465 0.8768559 0.6211574 1.3740367 0.4373032 1.3740367 0.5581219

## 113 114 115 116 117 118 119

## 0.5581219 1.1349977 1.1349977 1.4607502 0.4122906 2.6466797 0.3772606

## 120 121 122 123 124 125 126

## 1.2415345 0.4031703 1.4450458 1.4450458 1.4450458 0.6294284 0.6294284

## 127 128 129 130 131 132 133

## 0.6294284 0.5317768 0.5317768 0.5317768 1.6159178 1.6159178 1.1265518

## 134 135 136 137 138 139 140

## 1.1265518 0.8672763 0.8672763 1.6966939 1.6966939 1.4556061 0.5212169

## 141 142 143 144 145 146 147

## 0.5212169 0.7544257 0.3787726 0.3787726 0.3909224 1.3600749 1.0505751

## 148 149 150 151 152 153 154

## 1.8776521 0.5886286 0.7185088 0.5180656 1.4091836 0.3682860 1.4140690

## 155 156 157 158 159 160 161

## 0.3445628 1.4140690 0.7736067 0.7736067 0.4573351 0.4573351 1.2752827

## 162 163 164 165 166 167 168

## 1.2752827 0.7495661 0.7495661 0.5991465 0.5991465 1.5927997 0.5609879

## 169 170 171 172 173 174 175

## 1.5236587 0.4150035 1.5357084 1.3589381 1.3748172 0.9354629 0.9323633

## 176 177 178 179 180 181 182

## 0.6963171 0.7022297 1.4522910 1.4522910 1.4255581 0.4633940 0.4633940

## 183 184 185 186 187 188 189

## 0.9403635 0.3312974 0.3312974 0.5703092 1.0514553 1.8624891 1.8624891

## 190 191 192 193 194 195 196

## 0.2905084 0.4349810 0.4349810 0.4682126 0.4401276 0.4401276 1.1847861

## 197 198 199 200 201 202 203

## 1.1847861 0.4685277 0.4685277 0.2977791 0.2977791 0.8630484 0.8630484

## 204 205 206 207 208 209 210

## 0.3140421 0.3140421 0.3025992 0.3025992 2.0186311 1.1362259 0.8550442

## 211 212 213 214 215 216 217

## 1.5322221 1.5322221 0.5935698 0.5935698 0.5454077 1.8666441 0.5454077

## 218 219 220 221 222 223 224

## 1.8666441 0.4985852 0.4985852 1.3583185 1.3583185 0.5483881 1.3583185

## 225 226 227 228 229 230 231

## 0.5483881 1.0614935 1.1650035 1.1650035 1.0614935 2.3829610 2.3829610

## 232 233 234 235 236 237 238

## 2.3829610 1.1650035 0.5613938 0.5210424 0.5210424 0.5613938 1.1961880

## 239 240 241 242 243 244 245

## 1.1961880 1.1961880 0.5210424 0.3306432 0.3306432 0.8952665 0.8952665

## 246 247 248 249 250 251 252

## 0.8952665 0.9297270 0.9297270 0.4296323 0.4296323 1.0175381 0.4366711

## 253 254 255 256 257 258 259

## 0.4366711 1.0175381 1.0175381 0.5449797 0.5449797 0.5449797 1.0258856

## 260 261 262 263 264 265 266

## 0.3555605 0.3555605 0.3555605 0.3576158 0.3140845 1.5898715 1.5898715

## 267 268 269 270 271 272 273

## 1.5898715 0.8056401 0.8056401 0.8056401 0.4911940 0.4911940 0.4911940

## 274 275 276 277 278 279 280

## 1.2731324 1.2731324 0.4978518 0.4978518 2.3164338 0.3712585 0.3712585

## 281 282 283 284 285 286 287

## 2.3164338 0.8814496 0.8814496 0.6756058 0.6756058 0.9140909 0.9140909

## 288 289 290 291 292 293 294

## 0.9140909 0.7873301 0.7873301 0.7873301 0.4825671 0.4825671 0.4825671

## 295 296 297 298 299 300 301

## 1.7697337 1.7697337 0.6545334 0.6545334 0.4701734 0.4701734 1.3550198

## 302 303 304 305 306 307 308

## 1.3550198 1.3550198 2.0763716 2.0763716 0.5759121 0.5759121 0.5759121

## 309 310 311 312 313 314 315

## 0.9941672 0.9941672 0.5656155 0.5656155 0.5656155 0.5783775 0.5783775

## 316 317 318 319 320 321 322

## 0.6897604 0.6897604 0.5664065 0.5664065 0.4076390 0.4076390 1.8058717

## 323 324 325 326 327 328 329

## 1.8058717 0.8887891 1.1268799 1.1268799 0.8887891 0.7832745 0.7346377

## 330 331 332 333 334 335 336

## 0.7346377 0.7832745 1.3039301 1.3039301 1.7446477 2.2960578 0.7987016

## 337 338 339 340 341 342 343

## 2.2960578 0.8321791 0.4292458 0.8321791 0.6287020 0.6287020 1.3689251

## 344 345 346 347 348 349 350

## 1.3689251 0.7821362 0.6927574 0.6927574 0.7821362 0.8250602 0.6620561

## 351 352 353 354 355 356 357

## 0.6620561 0.8250602 0.9066263 0.6465728 0.6465728 0.9066263 0.4956241

## 358 359 360 361 362 363 364

## 1.4786859 0.4956241 0.3097378 0.4467499 0.3097378 0.3234019 1.7862717

## 365 366 367 368 369 370 371

## 1.7862717 1.2594791 1.2594791 0.9332093 0.9332093 1.5462207 0.8563596

## 372 373 374 375 376 377 378

## 1.1362425 0.4800908 0.4993351 0.5681297 1.4132296 0.5930282 0.4543487

## 379 380 381 382 383 384 385

## 0.6391695 0.6391695 0.3738153 0.3738153 0.3004977 0.3004977 1.1330973

## 386 387 388 389 390 391 392

## 1.1330973 0.9931323 0.9931323 1.6846452 0.8678446 1.6846452 1.5901110

## 393 394 395 396 397 398 399

## 0.8678446 1.5901110 1.5901110 1.3777819 1.0459362 1.0459362 1.4521066

## 400 401 402 403 404 405 406

## 1.3777819 0.9675964 0.9675964 0.9675964 1.4521066 1.3777819 0.4199639

## 407 408 409 410 411 412 413

## 0.5617593 0.5617593 0.6063462 0.4199639 0.4220355 0.4220355 0.4220355

## 414 415 416 417 418 419 420

## 0.6063462 0.4199639 0.4312889 0.9174613 0.4312889 0.9174613 0.4312889

## 421 422 423 424 425 426 427

## 1.5070518 0.7805248 0.4615292 0.4425259 0.4425259 0.3005178 0.3005178

## 428 429 430 431 432 433 434

## 0.3352097 0.3352097 1.2931982 1.2931982 0.4671361 1.5153799 0.4671361

## 435 436 437 438 439 440 441

## 1.5153799 0.7836169 1.0854694 0.7836169 1.0854694 0.5093268 0.5093268

## 442 443 444 445 446 447 448

## 1.4458596 1.4458596 0.3506219 0.3506219 0.7497394 0.7497394 1.1436693

## 449 450 451 452 453 454 455

## 1.1436693 0.4537289 0.4537289 0.4468237 0.4468237 1.5975682 1.5975682

## 456 457 458 459 460 461 462

## 1.0253794 1.0253794 1.1491108 1.1491108 1.4730332 0.2879937 0.2879937

## 463 464 465 466 467 468 469

## 1.4730332 1.5290789 0.9867133 0.9867133 0.4678366 1.5290789 0.2871999

## 470 471 472 473 474 475 476

## 0.2871999 0.4678366 0.7736474 0.5237212 0.7736474 0.5237212 0.7910743

## 477 478 479 480 481 482 483

## 0.7910743 1.4161940 1.4161940 1.4161940 1.4161940 1.2108954 1.2108954

## 484 485 486 487 488 489 490

## 1.2108954 1.2108954 1.2712205 1.2712205 1.2712205 1.2712205 1.4172270

## 491 492 493 494 495 496 497

## 1.4172270 0.9484036 0.9484036 0.6296452 0.6296452 1.3607309 1.3607309

## 498 499 500 501 502 503 504

## 1.0179296 1.0179296 0.7929448 0.7929448 1.0493910 1.0493910 0.5355250

## 505 506 507 508 509 510 511

## 0.5355250 0.3931610 0.3931610 0.8417804 0.8417804 0.8417804 0.6232632

## 512 513 514 515 516 517 518

## 0.6232632 0.6232632 0.8567738 0.8567738 0.8567738 0.7762612 0.7762612

## 519 520 521 522 523 524 525

## 0.4524322 0.4524322 0.8778069 0.8778069 0.2897083 0.8778069 0.2897083

## 526 527 528 529 530 531 532

## 0.7940380 0.7940380 0.7940380 0.3642045 0.3642045 0.3642045 0.9327907

## 533 534 535 536 537 538 539

## 0.7680679 1.1290740 1.4607502 1.4607502 1.4607502 0.9689384 0.9689384

## 540 541 542 543 544 545 546

## 0.9689384 0.8890625 0.8890625 0.8890625 1.6389772 1.6389772 1.4005882

## 547 548 549 550 551 552 553

## 0.5447996 0.5447996 1.4005882 1.4005882 1.1783765 0.5037987 0.5037987

## 554 555 556 557 558 559 560

## 1.1783765 1.1783765 1.2122331 1.2122331 1.2122331 1.6042788 1.0459176

## 561 562 563 564 565 566 567

## 0.6697468 1.1158454 0.4391294 0.8387651 0.9340132 0.8768835 1.0508125

## 568 569 570 571 572 573 574

## 1.6707670 1.6707670 0.5292474 0.5292474 0.4180562 0.4180562 1.1061800

## 575 576 577 578 579 580 581

## 1.1061800 1.1061800 1.0552919 1.0552919 1.0552919 0.7984246 0.7984246

## 582 583 584 585 586 587 588

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## 0.2382550 0.2382550 0.2382550 0.2384111 0.2382550 0.2386453 0.2382550

## 52193 52194 52195 52196 52197 52198 52199

## 0.2382550 0.2382550 0.2488865 0.2382550 0.2382550 0.2532668 0.2382550

## 52200 52201 52202 52203 52204 52205 52206

## 0.2491468 0.2382550 0.2382550 0.2388495 0.2382550 0.2382550 0.2382550

## 52207 52208 52209 52210 52211 52212 52213

## 0.3723849 0.3336769 0.3971638 0.3271687 0.3280542 0.3146661 0.3404142

## 52214 52215 52216 52217 52218 52219 52220

## 0.3249623 0.3144331 0.2981825 0.2948231 0.2810022 0.2386453 0.2967172

## 52221 52222 52223 52224 52225 52226 52227

## 0.2536573 0.2452819 0.2384501 0.2470386 0.4473874 0.2703404 0.5256439

## 52228 52229 52230 52231 52232 52233 52234

## 0.2692904 0.2661496 0.2688299 0.2768013 0.2659599 0.2700160 0.3642441

## 52235 52236 52237 52238 52239 52240 52241

## 0.5609980 0.2710421 0.2789872 0.2640853 0.2745726 0.2728040 0.2763975

## 52242 52243 52244 52245 52246 52247 52248

## 0.2757167 0.2769141 0.2729039 0.2717732 0.2848062 0.2502059 0.2581978

## 52249 52250 52251 52252 52253 52254 52255

## 0.3844258 0.2793543 0.2659734 0.2993032 0.3213743 0.2659816 0.2594788

## 52256 52257 52258 52259 52260 52261 52262

## 0.3694153 0.2917714 0.2883712 0.2961399 0.2600237 0.2473119 0.2646334

## 52263 52264 52265 52266 52267 52268 52269

## 0.2453599 0.2648440 0.2523868 1.8428872 1.5341755 1.3752332 1.4419690

## 52270 52271 52272 52273 52274 52275 52276

## 0.4743346 0.3907558 0.3152253 0.3165374 0.3465123 0.2382550 0.2382550

## 52277 52278 52279 52280 52281 52282 52283

## 0.2382550 0.2645129 0.2621551 0.2813283 0.3209138 0.2556675 0.2575331

## 52284 52285 52286 52287 52288 52289 52290

## 0.2593804 0.2605849 0.2490946 0.2532377 0.2458677 0.2536491 0.2909178

## 52291 52292 52293 52294 52295 52296 52297

## 0.2407274 0.2448017 0.3174391 0.2430049 0.2408575 0.2393610 0.2402719

## 52298 52299 52300 52301 52302 52303 52304

## 0.2407404 0.2394261 0.2386453 0.2386453 0.5119862 0.3358214 0.2747007

## 52305 52306 52307 52308 52309 52310 52311

## 1.2815304 1.1005505 0.6084595 0.2387234 0.2387234 0.2398165 0.3120613

## 52312 52313 52314 52315 52316 52317 52318

## 0.2409008 0.2428825 0.2801577 0.2458024 0.2456462 0.2831145 0.2382550

## 52319 52320 52321 52322 52323 52324 52325

## 0.2382550 0.2785495 0.2382550 0.2391499 0.2392309 0.2392309 0.2408163

## 52326 52327 52328 52329 52330 52331 52332

## 0.2403240 0.2382550 0.2382550 0.4450663 0.2994247 0.3038084 0.2418907

## 52333 52334 52335 52336 52337 52338 52339

## 0.2403812 0.2405374 0.2398816 0.2382550 0.2382550 0.2385152 0.2394440

## 52340 52341 52342 52343 52344 52345 52346

## 0.2408199 0.2382550 0.2382550 0.2382550 0.2382550 0.2382550 0.2382550

## 52347 52348 52349 52350 52351 52352 52353

## 0.2382550 0.2382550 0.2382550 1.0078288 0.7044902 0.6476991 0.2382550

## 52354 52355 52356 52357 52358 52359 52360

## 0.2382550 0.2382550 1.0128612 0.9786613 1.2791585 0.7112459 1.0419036

## 52361 52362 52363 52364 52365 52366 52367

## 0.5680936 0.8850287 0.6854400 0.4992370 1.4790206 0.7612958 0.4924539

## 52368 52369 52370 52371 52372 52373 52374

## 0.2384111 0.2384111 0.2382550 0.4798040 0.5355892 0.5124322 0.2697895

## 52375 52376 52377 52378 52379 52380 52381

## 0.2405324 0.2389709 0.2382550 0.2382550 0.2399726 0.4839090 0.3816915

## 52382 52383 52384 52385 52386 52387 52388

## 0.3707389 0.3104612 0.2407613 0.2758859 0.2419551 0.2464089 0.2401190

## 52389 52390 52391 52392 52393 52394 52395

## 0.3095829 0.2667161 0.2446637 0.7202352 0.3569043 0.3175428 0.2996020

## 52396 52397

## 0.2800339 0.2788809

pred<-predict(mod)

train\_sg$predicted = NA

train\_sg$predicted = pred

library(car)

## Loading required package: carData

dwt(mod)

## lag Autocorrelation D-W Statistic p-value

## 1 0.5028719 0.9942523 0

## Alternative hypothesis: rho != 0

plot(test\_sg$meta\_knn,test\_sg$meta\_rf)

cor(test\_sg$meta\_knn,test\_sg$meta\_rf)

## [1] 0.8151615

mod<-lm(test\_sg$meta\_knn~test\_sg$meta\_rf)

summary(mod)

##

## Call:

## lm(formula = test\_sg$meta\_knn ~ test\_sg$meta\_rf)

##

## Residuals:

## Min 1Q Median 3Q Max

## -1.99223 -0.16122 -0.09603 0.14712 2.68531

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 0.159885 0.005160 30.98 <2e-16 \*\*\*

## test\_sg$meta\_rf 0.636017 0.005177 122.86 <2e-16 \*\*\*

## ---

## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##

## Residual standard error: 0.3741 on 7622 degrees of freedom

## Multiple R-squared: 0.6645, Adjusted R-squared: 0.6644

## F-statistic: 1.51e+04 on 1 and 7622 DF, p-value: < 2.2e-16

predict(mod)

## 1 2 3 4 5 6 7

## 1.6728272 0.2936315 0.5239295 1.1506490 0.5573547 1.4363426 0.3697834

## 8 9 10 11 12 13 14

## 1.2569025 0.3492240 0.1605203 0.1625070 0.5450083 0.1678354 1.6056695

## 15 16 17 18 19 20 21

## 1.4406535 0.4874013 1.7591938 0.2932436 0.3231548 0.7997786 0.2282061

## 22 23 24 25 26 27 28

## 0.1645072 0.9974092 0.4011903 0.5962090 0.1598854 0.1616459 0.3044908

## 29 30 31 32 33 34 35

## 0.6945708 0.4169657 0.4846320 0.3042303 0.5354787 0.1869247 0.7779995

## 36 37 38 39 40 41 42

## 2.0013021 1.4452725 0.1598854 0.1600618 0.1601646 1.2231153 0.1903376

## 43 44 45 46 47 48 49

## 0.5604077 0.7872848 1.6963912 0.3042204 1.2569025 0.2456393 1.1411727

## 50 51 52 53 54 55 56

## 0.1688375 0.1622516 0.9669545 0.2126887 0.3731753 0.2315680 1.2590105

## 57 58 59 60 61 62 63

## 0.2138041 0.1701214 0.3038867 0.4946465 0.2026463 0.1697499 0.1709890

## 64 65 66 67 68 69 70

## 0.3050828 0.6382006 0.4107638 0.2552850 0.9848313 3.2979347 0.4594060

## 71 72 73 74 75 76 77

## 0.1600618 0.2452906 0.1625070 1.4230322 0.1611373 1.7066412 0.4290625

## 78 79 80 81 82 83 84

## 0.6820771 0.1875374 1.3765669 0.4555157 0.1603469 0.1680118 1.5228237

## 85 86 87 88 89 90 91

## 2.5234694 0.5388572 0.2259527 0.1639237 0.1598854 0.1924743 0.4920048

## 92 93 94 95 96 97 98

## 0.4318297 0.1831843 0.1816195 0.2839091 0.3217508 0.7358669 0.6854192

## 99 100 101 102 103 104 105

## 0.2129190 0.5104777 1.7183455 0.2400385 0.1598854 1.3263853 0.3500430

## 106 107 108 109 110 111 112

## 0.2316234 0.2000388 0.3250600 0.1726179 0.1779411 1.4041043 0.1599295

## 113 114 115 116 117 118 119

## 0.2725036 0.3495939 0.8078236 0.4711784 0.4116146 0.2345901 0.3231433

## 120 121 122 123 124 125 126

## 1.3111697 0.8147416 0.3059095 2.0840909 0.4128718 0.6774292 0.1600177

## 127 128 129 130 131 132 133

## 0.1647554 0.2864254 0.1662014 0.6516553 0.6718130 0.2388435 0.7772418

## 134 135 136 137 138 139 140

## 0.8170576 0.2139621 0.2503547 0.1626070 0.4871174 0.8155218 0.4467245

## 141 142 143 144 145 146 147

## 0.3054153 0.5356317 0.1598854 0.2822991 0.2426108 0.2725411 0.2670819

## 148 149 150 151 152 153 154

## 2.2317362 0.2773046 0.1857355 0.7387060 0.6392371 0.1598854 0.1598854

## 155 156 157 158 159 160 161

## 0.1600618 1.9800425 0.8215961 0.1598854 1.8774860 0.1774353 0.3425026

## 162 163 164 165 166 167 168

## 0.1803903 0.7859436 0.4032207 0.9907816 2.5711483 0.2427108 0.5386796

## 169 170 171 172 173 174 175

## 0.6235847 0.6774292 0.2062057 0.3844954 0.1637679 0.2506948 0.1621929

## 176 177 178 179 180 181 182

## 0.3483735 0.2266572 0.1694086 0.2353502 0.2113782 0.9802151 0.2550731

## 183 184 185 186 187 188 189

## 0.4085406 0.1743359 0.1604556 0.2048738 0.9626740 0.1872587 0.2022846

## 190 191 192 193 194 195 196

## 0.1694947 0.4351539 0.3053189 0.7122123 0.5017224 0.1634694 2.6024648

## 197 198 199 200 201 202 203

## 0.2692621 0.1606496 0.2499152 0.1647554 0.7732989 0.1611373 0.5660298

## 204 205 206 207 208 209 210

## 0.2981580 0.1693926 0.7520185 1.4312170 0.5575804 0.1601793 0.1665012

## 211 212 213 214 215 216 217

## 0.7927119 0.2524567 0.5046328 1.0380516 2.2792708 0.1631061 0.1598854

## 218 219 220 221 222 223 224

## 0.1787281 0.2335139 0.2081914 0.1834299 0.1610728 0.2316101 0.5788194

## 225 226 227 228 229 230 231

## 0.3233337 0.9440188 0.1610102 0.3202509 0.5252290 0.2827929 0.5482205

## 232 233 234 235 236 237 238

## 0.2265382 0.1598854 0.7090070 0.5788194 0.2141139 0.2032125 1.8571457

## 239 240 241 242 243 244 245

## 0.1793588 0.2532086 1.3754792 0.1655547 0.1599295 0.7338060 0.1598854

## 246 247 248 249 250 251 252

## 2.3063463 0.2083474 0.4263453 0.2668340 0.3421374 0.2464384 0.1699038

## 253 254 255 256 257 258 259

## 0.1906480 0.2823862 0.8109313 0.5007661 0.2614352 0.7154202 0.1601940

## 260 261 262 263 264 265 266

## 0.2107385 0.6671112 0.1673786 0.2957643 0.4027432 0.1600324 0.2269478

## 267 268 269 270 271 272 273

## 0.1998934 0.2667276 0.6731057 0.2138053 0.1624365 1.2125814 0.2058886

## 274 275 276 277 278 279 280

## 0.3853693 0.3492782 0.2849411 0.3374175 0.2033629 0.6263274 0.2650917

## 281 282 283 284 285 286 287

## 2.5939023 0.1598854 0.1946168 0.4012849 0.2478142 0.1598854 0.4825126

## 288 289 290 291 292 293 294

## 1.0374613 2.6848781 0.6962466 0.5484348 0.1598854 1.6114805 0.1728750

## 295 296 297 298 299 300 301

## 0.5367475 0.2578736 0.4953210 0.5974961 0.2244019 1.5136319 0.4202862

## 302 303 304 305 306 307 308

## 0.2823920 0.1616518 0.1769861 0.1663269 0.5465642 0.1744624 0.1700062

## 309 310 311 312 313 314 315

## 0.1655422 0.6521689 0.2369664 0.1601500 0.3148381 0.1601500 0.2054411

## 316 317 318 319 320 321 322

## 0.3804796 0.5762361 0.2313374 0.2921869 0.6987747 0.1598854 2.5918221

## 323 324 325 326 327 328 329

## 1.0540131 0.4177196 2.8034143 0.2340735 0.6312001 0.1602087 1.1189622

## 330 331 332 333 334 335 336

## 0.8585482 0.2759536 0.1678547 0.3177833 0.1928795 0.4541386 0.8703203

## 337 338 339 340 341 342 343

## 0.3858792 0.2341577 0.1845534 1.5071547 0.2979923 0.1967800 1.1056053

## 344 345 346 347 348 349 350

## 0.1860514 0.3052535 0.1606205 0.2862045 0.2460310 0.4103232 2.1678496

## 351 352 353 354 355 356 357

## 0.2914564 1.4036415 0.3906117 1.1056053 0.4895325 0.8590353 0.2113945

## 358 359 360 361 362 363 364

## 1.1167586 0.1598854 0.1755386 1.6958392 0.2099482 0.1599883 0.1600177

## 365 366 367 368 369 370 371

## 0.2159922 0.1708889 0.2136642 0.1831912 1.1018416 0.4341370 0.1928121

## 372 373 374 375 376 377 378

## 1.6648267 0.2452835 0.4657060 0.1883513 0.3912063 0.1615716 0.1598854

## 379 380 381 382 383 384 385

## 0.3678227 0.2699247 0.4594684 0.1878978 0.2071227 0.2510215 1.9815743

## 386 387 388 389 390 391 392

## 0.1707540 0.3187991 1.6033430 1.2040968 0.5643523 0.1598854 0.4668876

## 393 394 395 396 397 398 399

## 0.4291503 1.6730720 0.4868268 0.9893245 0.3991318 0.9035882 0.1598854

## 400 401 402 403 404 405 406

## 0.4630322 0.1598854 0.1738756 0.2980840 0.4076618 0.1659683 0.7657484

## 407 408 409 410 411 412 413

## 0.2815260 0.3402032 0.4255751 1.6730720 0.4443861 0.1731482 0.1598854

## 414 415 416 417 418 419 420

## 1.1837278 0.9423055 0.1696871 0.1598854 0.1824742 0.1601500 0.2976711

## 421 422 423 424 425 426 427

## 0.1598854 0.6063696 0.2718109 0.3153561 0.1652216 0.1599442 0.4568592

## 428 429 430 431 432 433 434

## 1.4897821 0.2670775 0.1598854 0.1681027 0.9274311 0.7542091 1.5199298

## 435 436 437 438 439 440 441

## 0.2662262 0.5842877 0.1628801 0.2447804 0.1916476 0.2489141 0.7267236

## 442 443 444 445 446 447 448

## 0.8221803 1.9051930 0.1598854 0.1669075 0.6133155 0.1837390 0.2444467

## 449 450 451 452 453 454 455

## 0.9872389 0.1612727 0.1882931 0.9489240 0.2942301 0.6133155 0.2117398

## 456 457 458 459 460 461 462

## 0.2411803 0.1809674 0.4886023 0.7824481 0.1598854 0.1598854 0.8657339

## 463 464 465 466 467 468 469

## 1.2939979 0.1598854 0.2767622 0.1600177 0.2220057 0.1691014 0.1827048

## 470 471 472 473 474 475 476

## 0.5753866 0.1598854 0.1634872 1.3499072 0.2262687 0.9395106 0.2788841

## 477 478 479 480 481 482 483

## 0.3178802 0.1789253 1.0994488 0.2851041 0.1598854 0.1598854 0.2202714

## 484 485 486 487 488 489 490

## 0.1598854 0.4991572 0.2339340 0.7744565 1.8397781 0.4726961 0.1624159

## 491 492 493 494 495 496 497

## 0.4582256 0.6949545 0.3024352 0.1598854 0.2353368 0.5335275 0.6590038

## 498 499 500 501 502 503 504

## 0.3765622 0.7259688 0.1599883 0.1599295 0.5696858 0.1598854 0.3876568

## 505 506 507 508 509 510 511

## 0.1667847 0.3554503 0.6590038 0.3686396 0.1598854 0.9039357 0.7565554

## 512 513 514 515 516 517 518

## 0.7633222 0.8432143 0.1598854 0.1613667 0.1964912 0.8083676 0.3075170

## 519 520 521 522 523 524 525

## 0.2445502 0.1818007 0.1655607 0.5814411 0.3777972 2.7056633 0.6606033

## 526 527 528 529 530 531 532

## 0.2103808 0.1598854 0.1598854 0.7702900 0.4389081 0.4524110 0.2073421

## 533 534 535 536 537 538 539

## 0.3921091 0.1631771 0.4309866 0.4779161 0.4536527 0.9496799 0.1600974

## 540 541 542 543 544 545 546

## 0.1944248 0.1641104 1.8073654 0.3050752 0.2977080 0.2393770 0.9703549

## 547 548 549 550 551 552 553

## 0.5851742 0.2561655 0.2132351 3.3957227 0.1803332 0.4430782 0.1598854

## 554 555 556 557 558 559 560

## 0.3157840 0.1795308 0.1598854 0.2961824 0.1600177 0.1902919 0.1901289

## 561 562 563 564 565 566 567

## 0.5510902 0.1598854 1.3751675 0.1894914 0.9167292 0.1616744 0.6199979

## 568 569 570 571 572 573 574

## 0.2263616 0.1613717 0.2145243 1.5926033 1.1814486 0.6639045 1.3802287

## 575 576 577 578 579 580 581

## 0.1598854 0.1623433 0.4254770 1.2619990 0.1856025 0.2575978 0.5371717

## 582 583 584 585 586 587 588

## 1.9733538 0.2156639 0.1656871 0.4563680 0.2833344 0.2087867 1.0146162

## 589 590 591 592 593 594 595

## 0.1598854 0.1598854 0.3553963 0.1598854 0.3721979 1.0146162 0.2704758

## 596 597 598 599 600 601 602

## 0.3539841 0.4194733 0.4830802 0.3321902 1.8667452 1.7136552 0.1598854

## 603 604 605 606 607 608 609

## 0.5311413 0.4014623 0.2892654 0.1648201 0.1640471 0.4803697 0.1652398

## 610 611 612 613 614 615 616

## 1.7865986 0.8731929 0.1633423 0.6482924 0.1904596 0.1598854 0.4573940

## 617 618 619 620 621 622 623

## 0.3500907 0.1616744 0.4171234 0.6101786 0.3530443 0.5116887 0.6348073

## 624 625 626 627 628 629 630

## 0.1611696 0.4076508 0.1693081 1.8544429 0.6086542 0.3308706 0.2334528

## 631 632 633 634 635 636 637

## 0.7164540 2.5962862 0.1708863 0.1634878 0.4281796 0.4669037 0.8524587

## 638 639 640 641 642 643 644

## 0.1780234 0.2002515 0.1733579 0.1940098 0.1887522 0.2032436 0.1606105

## 645 646 647 648 649 650 651

## 0.3425114 1.2260410 0.1611140 0.1598854 0.1766568 0.1766568 0.1599442

## 652 653 654 655 656 657 658

## 0.4915782 0.2091315 0.1603204 0.1637162 1.5442551 0.1766568 0.1766568

## 659 660 661 662 663 664 665

## 0.3813764 0.5970620 0.1616519 0.1766568 0.2810892 0.5924461 0.4963436

## 666 667 668 669 670 671 672

## 0.1766568 0.1604086 0.1967238 1.3144549 0.1844398 0.1606546 0.4076399

## 673 674 675 676 677 678 679

## 0.1895818 0.5306134 1.0359166 2.1934262 0.1766568 0.1766568 0.4895967

## 680 681 682 683 684 685 686

## 0.1766568 0.1766568 0.1598854 0.1766568 1.5068807 0.1769846 0.1766568

## 687 688 689 690 691 692 693

## 0.1766568 0.1598854 1.6407186 0.1598854 0.1766568 0.1766568 1.9346122

## 694 695 696 697 698 699 700

## 0.1834902 0.1766568 0.1660524 0.1766568 0.9128920 0.1766568 0.2821202

## 701 702 703 704 705 706 707

## 0.1766568 0.2802684 0.3878441 0.5968227 0.1745848 0.9088217 0.1599295

## 708 709 710 711 712 713 714

## 0.3570071 0.1598854 1.9346122 1.7722823 0.3403074 0.1766568 1.1606744

## 715 716 717 718 719 720 721

## 1.2946429 0.5739984 0.5968227 0.2880438 0.1598854 0.9256486 0.1766568

## 722 723 724 725 726 727 728

## 0.1766568 0.1598854 0.1633976 0.1635344 0.4144185 1.1811221 0.1599442

## 729 730 731 732 733 734 735

## 0.9107514 0.1766568 1.2013057 0.2136682 0.1598854 0.2735614 0.7420988

## 736 737 738 739 740 741 742

## 0.1600588 0.1598854 0.6228683 0.1766568 0.1851375 0.1766568 0.1766568

## 743 744 745 746 747 748 749

## 3.2463098 0.1599442 0.9133692 1.1379195 0.2952058 1.0461745 0.5968227

## 750 751 752 753 754 755 756

## 0.1766568 0.1681511 0.3664811 0.1656330 0.1897600 0.3187216 0.3125557

## 757 758 759 760 761 762 763

## 0.3092122 0.3720105 0.1766568 0.3157524 0.6524104 0.1758442 0.1766568

## 764 765 766 767 768 769 770

## 1.2522941 0.1766568 0.1600618 0.8892831 2.6482912 0.1599442 0.2984578

## 771 772 773 774 775 776 777

## 0.4318218 0.1646584 0.1766568 0.1655372 0.6403936 0.8397732 2.2664250

## 778 779 780 781 782 783 784

## 0.2142668 0.1600001 0.1598854 3.3582939 0.9952537 0.5303556 0.1610699

## 785 786 787 788 789 790 791

## 0.1598854 0.1737253 0.1737253 0.1601206 0.1603204 0.1598854 0.2267839

## 792 793 794 795 796 797 798

## 2.0749821 0.1737253 0.1601676 0.1737253 0.2140306 0.2845017 0.1598854

## 799 800 801 802 803 804 805

## 0.1602090 0.1737253 0.2375020 0.3636871 0.1601764 0.2383248 0.1737253

## 806 807 808 809 810 811 812

## 1.2742936 0.1605849 1.2946384 0.1822803 0.1598854 0.4598283 0.3786184

## 813 814 815 816 817 818 819

## 0.3883589 0.9602354 0.1737253 0.7356516 1.8856717 0.1737253 0.3375825

## 820 821 822 823 824 825 826

## 0.1737253 0.1599912 0.1737253 0.5065627 0.1598854 0.1737253 1.6997265

## 827 828 829 830 831 832 833

## 0.9059764 1.2659227 0.1657537 0.1737253 0.1737253 0.5219117 0.2134569

## 834 835 836 837 838 839 840

## 0.1737253 0.1737253 1.5998958 0.1638200 2.0369467 0.8145538 0.1737253

## 841 842 843 844 845 846 847

## 0.1598854 0.1737253 0.8383510 0.4538965 0.6049444 0.1737253 0.1737253

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## 0.2597771 0.1841176 1.7923882 0.3534650 0.3268676 0.1598854 0.9606693

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## 1842 1843 1844 1845 1846 1847 1848

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## 1849 1850 1851 1852 1853 1854 1855

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## 1856 1857 1858 1859 1860 1861 1862

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## 1863 1864 1865 1866 1867 1868 1869

## 0.2589989 1.7275439 0.1598854 0.1672683 0.8331566 1.7010034 0.2533229

## 1870 1871 1872 1873 1874 1875 1876

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## 1877 1878 1879 1880 1881 1882 1883

## 0.1599560 0.3681387 0.1834404 0.1598854 0.1599560 0.2249069 0.1598854

## 1884 1885 1886 1887 1888 1889 1890

## 1.2069434 0.9817907 0.2589561 0.1860019 0.1599560 0.3525816 0.9121309

## 1891 1892 1893 1894 1895 1896 1897

## 0.6015050 0.1628421 1.0728169 0.1868304 0.2025751 2.0054361 0.2403765

## 1898 1899 1900 1901 1902 1903 1904

## 1.1194075 0.1598854 0.3488418 2.5082153 0.5471990 0.1719486 0.7656204

## 1905 1906 1907 1908 1909 1910 1911

## 0.1599442 0.1857478 0.1599560 0.1598854 0.1698059 0.2822336 0.4619748

## 1912 1913 1914 1915 1916 1917 1918

## 0.1634715 1.0584384 0.9145794 0.3314020 0.3614983 0.3814943 0.1608523

## 1919 1920 1921 1922 1923 1924 1925

## 2.3223841 0.4750983 0.5936538 0.5435237 0.4973353 0.2255350 0.4222328

## 1926 1927 1928 1929 1930 1931 1932

## 0.6647839 0.1769495 0.1604497 0.1724436 0.2174495 0.2186036 0.1598854

## 1933 1934 1935 1936 1937 1938 1939

## 2.3169578 0.1599560 1.3002176 0.3129618 0.3811097 2.3508969 0.2220286

## 1940 1941 1942 1943 1944 1945 1946

## 0.2837634 0.2062315 0.2062397 0.6209162 0.4539160 0.7501525 1.7706752

## 1947 1948 1949 1950 1951 1952 1953

## 0.3100005 0.1970186 0.2392520 1.6288436 0.8366051 0.6241834 0.8366051

## 1954 1955 1956 1957 1958 1959 1960

## 0.3228799 0.1718490 0.6819434 0.7255427 1.9665132 0.4779915 1.2675223

## 1961 1962 1963 1964 1965 1966 1967

## 0.1780058 0.2346832 0.2037630 0.4099423 1.5621555 2.2440244 1.0935413

## 1968 1969 1970 1971 1972 1973 1974

## 0.3475119 0.1949238 0.1719940 0.1598854 0.1602381 1.8193269 0.1598854

## 1975 1976 1977 1978 1979 1980 1981

## 0.2215996 1.3420253 1.2529539 1.0243437 0.5100700 0.3589771 0.6031146

## 1982 1983 1984 1985 1986 1987 1988

## 0.4240059 0.1829456 0.4926842 0.4313814 0.1630537 0.1598854 0.2186246

## 1989 1990 1991 1992 1993 1994 1995

## 0.1618223 0.2174301 0.1694423 0.2776076 0.1651253 0.2547469 0.3495700

## 1996 1997 1998 1999 2000 2001 2002

## 0.1892464 0.3240915 0.2376388 0.1647789 0.1602381 0.2475022 0.1602381

## 2003 2004 2005 2006 2007 2008 2009

## 0.2251213 0.3393060 0.3181437 0.1647323 1.0243437 0.1602381 0.3967095

## 2010 2011 2012 2013 2014 2015 2016

## 0.1615901 0.3005291 1.0243437 1.1318650 2.4986550 1.3550074 1.3200248

## 2017 2018 2019 2020 2021 2022 2023

## 0.1667275 0.2872292 0.4195611 0.3017944 0.9354648 0.5652098 0.1693697

## 2024 2025 2026 2027 2028 2029 2030

## 0.2376388 1.0728681 0.6727139 0.1598854 0.1602381 0.2958152 0.1602381

## 2031 2032 2033 2034 2035 2036 2037

## 0.2224432 1.1069384 0.4138660 0.7838120 1.6393668 0.2065119 0.1602381

## 2038 2039 2040 2041 2042 2043 2044

## 0.5037806 0.2964253 0.7376235 0.1666158 0.3210232 0.1853581 0.1598854

## 2045 2046 2047 2048 2049 2050 2051

## 0.6676959 0.1651727 0.1598854 1.3550074 0.3628440 1.2832452 0.4625205

## 2052 2053 2054 2055 2056 2057 2058

## 0.1621867 0.2121456 0.1602381 0.1797150 0.3013940 0.1598854 0.4015418

## 2059 2060 2061 2062 2063 2064 2065

## 0.4880635 0.1599736 0.2547469 0.1607139 1.5155540 2.5801302 1.5771810

## 2066 2067 2068 2069 2070 2071 2072

## 0.3056212 0.5012676 0.1952663 1.0063142 2.6220558 1.1672464 0.1599295

## 2073 2074 2075 2076 2077 2078 2079

## 1.6288436 1.3550074 0.1665936 1.1054459 0.1602381 0.4103692 0.3367272

## 2080 2081 2082 2083 2084 2085 2086

## 0.2011206 2.6370614 0.1756317 0.1604882 0.1841893 0.1896119 0.2180948

## 2087 2088 2089 2090 2091 2092 2093

## 0.2754493 0.2917996 0.1631933 0.4277781 0.5369608 0.2268313 0.1842450

## 2094 2095 2096 2097 2098 2099 2100

## 0.1846574 1.4484513 0.6501072 0.3613233 0.3372985 0.3613233 0.2341585

## 2101 2102 2103 2104 2105 2106 2107

## 0.1710077 0.5503257 0.3833527 1.5738828 0.4467543 0.7025933 0.1756704

## 2108 2109 2110 2111 2112 2113 2114

## 0.2124047 0.3703138 1.4484513 1.1674954 0.8119869 0.2828725 0.2514313

## 2115 2116 2117 2118 2119 2120 2121

## 0.1598854 0.5963507 0.1599442 0.1706009 0.4711364 0.8961208 0.3883301

## 2122 2123 2124 2125 2126 2127 2128

## 0.2292202 0.2524009 0.2967404 0.1599442 0.1696283 0.1598854 0.5967138

## 2129 2130 2131 2132 2133 2134 2135

## 0.1857459 0.1715293 0.1981684 0.1606349 0.1757923 0.2792093 0.2406806

## 2136 2137 2138 2139 2140 2141 2142

## 0.1636033 0.1732081 0.1793647 0.8961208 0.2283206 0.1625364 0.8961208

## 2143 2144 2145 2146 2147 2148 2149

## 0.7225556 0.5779926 0.9631150 0.8148004 0.8151393 0.5893898 0.2702862

## 2150 2151 2152 2153 2154 2155 2156

## 0.2100683 0.4372221 0.6613306 0.2786902 0.3586188 1.1912466 0.1598854

## 2157 2158 2159 2160 2161 2162 2163

## 0.1631376 1.0800316 0.4544459 1.1796889 0.9204983 1.0083058 0.1690215

## 2164 2165 2166 2167 2168 2169 2170

## 0.1598854 0.2051785 0.4846378 0.2553164 0.4765377 0.1634445 0.3826360

## 2171 2172 2173 2174 2175 2176 2177

## 0.1615716 0.1616492 0.1598854 0.3146229 0.2050359 2.5948496 0.1933342

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## 2185 2186 2187 2188 2189 2190 2191

## 0.3030104 0.1598854 0.6975133 0.6122856 2.3367038 1.5483286 0.7947908

## 2192 2193 2194 2195 2196 2197 2198

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## 2199 2200 2201 2202 2203 2204 2205

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## 2206 2207 2208 2209 2210 2211 2212

## 0.1599295 0.1719213 1.5665104 0.7056090 0.7097813 0.3243698 1.1959727

## 2213 2214 2215 2216 2217 2218 2219

## 0.1598854 0.1603413 0.2587407 0.1739330 0.2188100 0.1606208 1.0163888

## 2220 2221 2222 2223 2224 2225 2226

## 0.2672360 0.3291879 1.0860113 0.6200847 0.3276298 0.1707491 0.3247238

## 2227 2228 2229 2230 2231 2232 2233

## 0.2388048 0.9169382 0.3253551 0.3689892 0.1813765 1.0860113 0.4300030

## 2234 2235 2236 2237 2238 2239 2240

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## 2255 2256 2257 2258 2259 2260 2261

## 0.1746581 0.2519390 0.1845920 0.1636033 0.8354085 0.1788976 0.2974392

## 2262 2263 2264 2265 2266 2267 2268

## 0.2113071 0.2974392 0.3712749 0.4590943 0.4506719 0.7624352 0.4472441

## 2269 2270 2271 2272 2273 2274 2275

## 0.5898368 0.2685952 0.2350329 0.2240493 0.3764140 0.1614679 0.6053625

## 2276 2277 2278 2279 2280 2281 2282

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## 0.1600001 2.1659762 1.1933726 0.1598854 0.7624352 1.1933726 0.4362708

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## 0.1598854 0.1598854 0.3227461 2.5045637 1.5496427 0.1683820 0.5561324

## 2304 2305 2306 2307 2308 2309 2310

## 0.9628878 1.0132007 0.2874109 0.5811400 0.5568968 0.1803714 1.3209578

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## 1.9899299 0.3005505 0.4106948 0.3712749 0.6200847 0.1917160 1.1940784

## 2318 2319 2320 2321 2322 2323 2324

## 0.7624352 0.1598854 0.1776284 3.2606693 0.1660986 1.0342948 0.2675604

## 2325 2326 2327 2328 2329 2330 2331

## 0.2789602 0.5772597 0.1598854 0.1603413 0.6540077 0.1730107 0.1606208

## 2332 2333 2334 2335 2336 2337 2338

## 0.8355387 0.2714951 0.9062022 0.5212553 0.9062022 0.1600533 0.1598854

## 2339 2340 2341 2342 2343 2344 2345

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## 2346 2347 2348 2349 2350 2351 2352

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## 0.5639921 0.1621197 0.1716330 0.1598854 0.1792618 1.6235446 0.1663363

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## 0.1598854 0.2804191 0.6519219 0.1608894 0.1630458 0.1624483 0.1598854

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## 1.8397940 1.4483138 0.1598854 1.4483138 0.3252057 0.7058010 0.2907592

## 2395 2396 2397 2398 2399 2400 2401

## 0.5633266 0.1598854 0.8408376 0.4792554 0.4397718 1.2522034 0.3936970

## 2402 2403 2404 2405 2406 2407 2408

## 0.2705786 1.0262695 0.1603586 0.7386146 0.2554280 0.3551374 0.1831020

## 2409 2410 2411 2412 2413 2414 2415

## 1.1828850 0.1598854 0.1600618 0.1690467 1.5087616 2.7280367 0.5117071

## 2416 2417 2418 2419 2420 2421 2422

## 0.1598854 1.1413845 0.3989458 0.1886145 0.1598854 0.5793305 0.2910216

## 2423 2424 2425 2426 2427 2428 2429

## 0.6553704 1.1819470 0.4331869 0.1940386 1.1791172 0.3772565 1.7871239

## 2430 2431 2432 2433 2434 2435 2436

## 1.2630513 0.3577147 0.1599295 1.0734570 1.1672473 2.1864949 0.2352072

## 2437 2438 2439 2440 2441 2442 2443

## 0.1598854 0.1598854 0.1600177 0.3870103 0.6690715 2.5054383 0.1737357

## 2444 2445 2446 2447 2448 2449 2450

## 0.3494892 0.7295275 1.5059252 0.1735099 0.4575537 0.1600324 0.1642518

## 2451 2452 2453 2454 2455 2456 2457

## 1.9408951 0.7005286 0.1618370 0.5562456 0.1599442 0.5872855 0.1931071

## 2458 2459 2460 2461 2462 2463 2464

## 0.2792622 0.3315265 0.1598854 1.5059252 0.6393331 0.1599442 2.5054383

## 2465 2466 2467 2468 2469 2470 2471

## 1.0585898 0.2016656 0.5233717 0.2914154 0.7007845 1.5059252 0.2423815

## 2472 2473 2474 2475 2476 2477 2478

## 0.1602469 0.1813315 0.1604444 0.5398432 0.5498621 2.8062512 0.3343348

## 2479 2480 2481 2482 2483 2484 2485

## 0.2719965 0.1607704 0.2883065 0.2626461 0.3703504 0.5353773 0.3013375

## 2486 2487 2488 2489 2490 2491 2492

## 0.2550911 0.7416232 0.8830520 0.1598854 0.1598854 0.5562456 0.4033240

## 2493 2494 2495 2496 2497 2498 2499

## 0.5562456 0.4490473 0.1956563 0.1598854 0.4018253 0.2896753 0.1750480

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## 0.2239921 0.8067126 0.1599442 0.2619396 0.2010669 0.4856236 0.1702290

## 2507 2508 2509 2510 2511 2512 2513

## 0.1599442 0.2677588 0.4911075 2.5327485 0.5699366 0.1598854 0.2752487

## 2514 2515 2516 2517 2518 2519 2520

## 0.1643674 0.3493280 0.8077949 0.6340182 0.2257823 1.6164665 0.5116504

## 2521 2522 2523 2524 2525 2526 2527

## 1.4086024 0.2543300 1.8488625 0.3433564 0.3749897 0.9887820 0.1598854

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## 0.1600941 0.5472849 0.7994458 1.7345532 0.4836624 0.7650964 0.5029215

## 2535 2536 2537 2538 2539 2540 2541

## 2.3368366 0.2933721 0.1994537 0.6026100 0.3817849 2.1290862 0.3764272

## 2542 2543 2544 2545 2546 2547 2548

## 1.5258619 0.1691152 0.2805830 1.7254135 1.0754169 1.4479878 0.1598854

## 2549 2550 2551 2552 2553 2554 2555

## 0.1659376 0.3357295 0.3740303 0.4700921 0.1608083 0.1601206 0.1603106

## 2556 2557 2558 2559 2560 2561 2562

## 0.2219423 1.1459520 0.2436355 0.3361572 1.8782131 0.1599207 1.0754169

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## 0.3677038 0.5022182 0.1603322 1.5258619 0.6230991 0.1742558 0.1809294

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## 0.3390941 0.1598854 0.2564264 0.2189613 0.3607016 1.0754169 0.6671052

## 2577 2578 2579 2580 2581 2582 2583

## 0.1601147 1.0824263 0.3764190 0.8112788 1.7588966 0.1858417 0.1960013

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## 0.3978097 0.1606234 0.1738740 0.2034003 0.9256073 0.1669097 2.3368366

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## 0.5118048 0.2139943 2.1925236 0.3611708 0.1961253 0.2730226 0.1696670

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## 0.2650806 0.2794471 0.1974532 1.5170124 0.1635724 0.3240701 1.1932407

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## 0.1943658 1.6736321 0.5281251 0.2260057 0.9154667 0.3079577 0.8396878

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## 0.2425296 0.8785111 1.5992003 0.2683418 0.2705933 0.1598854 0.3369804

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## 0.5545440 0.8135990 0.8727450 2.6781586 3.8402713 0.8427079 0.9628766

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## 7078 7079 7080 7081 7082 7083 7084

## 0.8567729 2.1829696 0.2744760 0.2036717 0.2057455 2.7841681 1.6536174

## 7085 7086 7087 7088 7089 7090 7091

## 2.2944521 0.1771322 0.1802217 0.4255196 0.3563524 0.7373718 0.3079664

## 7092 7093 7094 7095 7096 7097 7098

## 0.6256553 0.4424895 0.5972453 0.2330440 1.1224229 0.5277524 0.2969307

## 7099 7100 7101 7102 7103 7104 7105

## 2.5597383 0.9253003 0.7020511 0.1792996 0.3745811 0.2275516 0.2882775

## 7106 7107 7108 7109 7110 7111 7112

## 0.3819563 0.7081635 0.1845296 0.3817167 0.3349292 0.4529785 0.2328322

## 7113 7114 7115 7116 7117 7118 7119

## 1.8432888 0.3809749 0.1598854 1.2490288 0.1769643 1.8432888 1.1997192

## 7120 7121 7122 7123 7124 7125 7126

## 0.1688446 1.1687135 0.1738429 1.8432888 0.3297696 0.2436112 1.0752040

## 7127 7128 7129 7130 7131 7132 7133

## 0.3034547 0.2015959 0.1788340 0.3200306 1.2719134 0.1617043 0.3929500

## 7134 7135 7136 7137 7138 7139 7140

## 0.2163856 0.1981765 0.2680200 1.5116087 0.5585563 0.1636457 0.2642375

## 7141 7142 7143 7144 7145 7146 7147

## 0.3074897 0.2703619 0.3276092 0.2327018 0.1618207 0.1598854 0.6198567

## 7148 7149 7150 7151 7152 7153 7154

## 0.3642216 1.0103690 0.1599442 0.1855816 0.2225086 0.1622807 0.1782426

## 7155 7156 7157 7158 7159 7160 7161

## 0.5765807 0.5390138 0.4743180 0.2625830 0.4146769 0.5272000 0.4611307

## 7162 7163 7164 7165 7166 7167 7168

## 0.4896135 0.8885778 0.2081662 1.7946992 0.2589594 0.1675886 0.4168860

## 7169 7170 7171 7172 7173 7174 7175

## 0.1857427 1.6143845 0.1753263 0.2576299 0.1675886 0.1861982 0.1600618

## 7176 7177 7178 7179 7180 7181 7182

## 1.5519662 0.2993725 0.4227217 0.1598854 0.5005758 0.1682884 1.9294062

## 7183 7184 7185 7186 7187 7188 7189

## 0.1641588 0.3176413 0.2541411 0.2990893 0.1600618 0.1950952 0.1599736

## 7190 7191 7192 7193 7194 7195 7196

## 0.1961137 0.1714171 0.3479601 1.3428160 0.1735111 0.1599442 1.1045985

## 7197 7198 7199 7200 7201 7202 7203

## 0.6791149 0.1862315 0.5820947 0.2967267 0.1841353 0.3385419 0.9253003

## 7204 7205 7206 7207 7208 7209 7210

## 1.2856117 0.6769781 0.9132475 1.8037885 0.1705866 0.3552515 0.3944328

## 7211 7212 7213 7214 7215 7216 7217

## 0.2120528 0.2045123 0.6231568 0.1898650 1.2394086 0.5694458 0.1598854

## 7218 7219 7220 7221 7222 7223 7224

## 0.4155361 0.9989233 0.3416610 0.1598854 0.2476384 1.3324350 0.1602381

## 7225 7226 7227 7228 7229 7230 7231

## 0.4325139 0.5078595 0.5814562 0.4756233 0.8181217 1.0613290 0.2768669

## 7232 7233 7234 7235 7236 7237 7238

## 0.5678160 0.3742960 0.1925619 0.1634302 1.5402145 0.1599207 0.3789441

## 7239 7240 7241 7242 7243 7244 7245

## 1.5612209 3.4300430 0.4335992 0.3361775 0.4631472 2.1660927 0.8165320

## 7246 7247 7248 7249 7250 7251 7252

## 0.5277781 0.2233020 2.1780053 0.6071488 0.5746463 0.1972374 0.8287599

## 7253 7254 7255 7256 7257 7258 7259

## 0.1822236 0.5322321 1.2064134 0.2489698 0.1706776 1.4763376 1.1694978

## 7260 7261 7262 7263 7264 7265 7266

## 0.3317919 0.7289989 2.0972152 0.2246924 0.2563790 0.4460075 1.3705242

## 7267 7268 7269 7270 7271 7272 7273

## 0.5823241 0.6169719 0.3737096 0.7001880 0.3405403 0.3910734 0.2553591

## 7274 7275 7276 7277 7278 7279 7280

## 0.2307230 1.7947262 0.2050547 1.8240017 0.2058674 0.2340204 0.2799380

## 7281 7282 7283 7284 7285 7286 7287

## 0.3353011 0.1996456 0.1663269 0.3710906 0.2009701 0.3049653 0.1675405

## 7288 7289 7290 7291 7292 7293 7294

## 1.1342152 0.2622089 0.5920185 1.1342152 0.4495765 0.3460048 0.4569074

## 7295 7296 7297 7298 7299 7300 7301

## 0.1601793 1.1342152 0.2109578 0.3026595 0.5375404 0.1994952 0.1753513

## 7302 7303 7304 7305 7306 7307 7308

## 0.1947448 0.1938726 0.2343441 0.5602476 0.1598854 1.1502088 0.2557214

## 7309 7310 7311 7312 7313 7314 7315

## 0.2563958 0.1971132 0.1937775 0.4357320 0.1919118 1.6469752 0.1947448

## 7316 7317 7318 7319 7320 7321 7322

## 0.1598854 0.1738755 0.3173520 0.3235399 0.1622245 0.1662226 0.1598854

## 7323 7324 7325 7326 7327 7328 7329

## 0.1658187 0.6988904 1.5593177 0.2416898 0.3002368 0.1598854 0.1601793

## 7330 7331 7332 7333 7334 7335 7336

## 0.5164405 0.2966403 1.4306743 0.3513658 0.2164182 0.1628414 1.2853335

## 7337 7338 7339 7340 7341 7342 7343

## 0.4491655 0.1709626 0.3748260 0.4466228 1.3083241 0.2434134 0.1866364

## 7344 7345 7346 7347 7348 7349 7350

## 0.2222375 0.3532197 0.1599883 0.5238169 0.1598854 0.4143675 0.1811288

## 7351 7352 7353 7354 7355 7356 7357

## 0.6991591 0.9251084 0.1878591 0.1642590 0.2638285 1.1427362 0.2230236

## 7358 7359 7360 7361 7362 7363 7364

## 0.7851020 0.1642590 0.9033152 0.2239876 0.9020917 0.2391325 0.4799806

## 7365 7366 7367 7368 7369 7370 7371

## 1.5716603 0.2268581 0.1598854 0.2632848 1.2237336 0.1598854 1.5229259

## 7372 7373 7374 7375 7376 7377 7378

## 0.1598854 0.1627444 2.4545529 0.2119999 0.1598854 0.2606753 0.1601117

## 7379 7380 7381 7382 7383 7384 7385

## 0.2453395 0.2680047 0.5344557 0.1598854 0.1598854 0.8556896 0.2809720

## 7386 7387 7388 7389 7390 7391 7392

## 0.5299990 0.3668194 0.2883914 0.2689014 0.2497254 0.1758775 0.6046138

## 7393 7394 7395 7396 7397 7398 7399

## 0.2223578 0.5022947 0.3277568 1.5182135 0.3268165 1.3667700 0.5730044

## 7400 7401 7402 7403 7404 7405 7406

## 0.3063800 0.1969387 0.2660135 0.2829989 0.6893914 0.2459290 2.2057788

## 7407 7408 7409 7410 7411 7412 7413

## 0.1598854 0.4572389 0.1966714 0.4298583 0.2531383 1.0703402 0.1599442

## 7414 7415 7416 7417 7418 7419 7420

## 0.2387667 0.1777776 0.4225199 0.9273307 0.2815407 1.8133669 0.3341754

## 7421 7422 7423 7424 7425 7426 7427

## 0.7606440 0.2191240 0.3716594 0.1709508 0.5472423 0.1602381 0.1598854

## 7428 7429 7430 7431 7432 7433 7434

## 0.4028143 0.6287426 0.8684696 2.7910546 0.2804119 0.6188812 0.4565757

## 7435 7436 7437 7438 7439 7440 7441

## 2.1632716 1.4948359 0.2466770 0.2640767 0.6855218 0.4784177 0.4923503

## 7442 7443 7444 7445 7446 7447 7448

## 0.3327199 0.5862173 0.2336973 0.5464426 0.1698974 0.4741000 0.3544993

## 7449 7450 7451 7452 7453 7454 7455

## 1.5935259 0.7300570 1.3137667 0.1711630 0.7689773 0.3908621 0.1886802

## 7456 7457 7458 7459 7460 7461 7462

## 0.4519990 0.5269487 0.1747641 0.2017239 0.2165193 0.1813904 0.3845964

## 7463 7464 7465 7466 7467 7468 7469

## 0.7735769 0.3083632 0.5992362 0.3365901 0.4410336 0.3795635 0.7073770

## 7470 7471 7472 7473 7474 7475 7476

## 0.1658458 0.9135352 0.2032351 0.4564935 0.1886539 0.1718596 0.5822120

## 7477 7478 7479 7480 7481 7482 7483

## 0.2480605 0.6486770 0.1804534 0.1598854 0.2327596 2.2979810 0.1972452

## 7484 7485 7486 7487 7488 7489 7490

## 0.1667218 1.0817756 0.1599295 1.0817756 0.7929125 0.2544357 0.3142140

## 7491 7492 7493 7494 7495 7496 7497

## 0.1641617 0.2639955 0.2489657 0.1601793 0.1598854 1.0817756 0.1755605

## 7498 7499 7500 7501 7502 7503 7504

## 0.4159228 0.5445458 0.5209212 0.1968613 0.1619399 0.1663724 0.8692638

## 7505 7506 7507 7508 7509 7510 7511

## 0.3577717 2.2262255 0.1599442 0.4684558 0.4823660 0.2145269 0.1745275

## 7512 7513 7514 7515 7516 7517 7518

## 0.2781916 0.1762206 0.7919566 0.1663724 0.1599442 0.8048871 0.4798650

## 7519 7520 7521 7522 7523 7524 7525

## 0.1711001 2.9864097 0.3272401 3.3038099 0.1676826 0.1626090 0.1598854

## 7526 7527 7528 7529 7530 7531 7532

## 0.2091128 0.1601764 0.3735786 0.4988779 0.2034426 0.1614490 0.1600618

## 7533 7534 7535 7536 7537 7538 7539

## 0.4591081 0.2148523 0.4979375 0.1613722 0.2074992 0.5647983 0.3921897

## 7540 7541 7542 7543 7544 7545 7546

## 0.1709620 0.6219147 3.8108610 0.3083676 0.2805950 0.3046010 0.1823043

## 7547 7548 7549 7550 7551 7552 7553

## 0.2065101 0.1598854 0.1598854 0.2198144 0.2206723 1.7890107 0.2951567

## 7554 7555 7556 7557 7558 7559 7560

## 0.1811563 0.2368890 0.5422211 0.1835651 0.2996126 0.2648893 0.3465482

## 7561 7562 7563 7564 7565 7566 7567

## 1.5815374 0.1775718 0.2953385 0.9891692 0.1902415 1.6834707 0.5368691

## 7568 7569 7570 7571 7572 7573 7574

## 0.1783507 0.9142434 0.6251559 0.6418059 0.2068471 0.1598854 0.2540700

## 7575 7576 7577 7578 7579 7580 7581

## 0.2823974 0.1598854 0.6300948 2.0574047 0.1598854 0.2933681 1.3537873

## 7582 7583 7584 7585 7586 7587 7588

## 0.1598854 0.2235014 1.1781341 0.4835659 0.1601117 1.0971411 0.2021265

## 7589 7590 7591 7592 7593 7594 7595

## 0.2061111 0.2712807 0.7551164 0.1598854 0.3850477 0.1598854 1.9645903

## 7596 7597 7598 7599 7600 7601 7602

## 0.1709620 0.2311450 0.2746425 0.3439402 1.8771204 0.1963572 0.1758199

## 7603 7604 7605 7606 7607 7608 7609

## 0.4967621 0.1967396 0.2823739 0.1885635 0.5388510 0.2855977 0.9182050

## 7610 7611 7612 7613 7614 7615 7616

## 0.2014973 0.8164428 1.4744005 0.3556694 1.9645903 0.1869068 0.4431503

## 7617 7618 7619 7620 7621 7622 7623

## 0.6257220 0.1917752 1.0273893 0.3415296 0.2758088 0.2219158 1.0241593

## 7624

## 0.2861171

pred<-predict(mod)

test\_sg$predicted = NA

test\_sg$predicted = pred

library(car)

dwt(mod)

## lag Autocorrelation D-W Statistic p-value

## 1 0.008002193 1.983926 0.448

## Alternative hypothesis: rho != 0

plot(train\_sg$meta\_knn,train\_sg$meta\_rf,abline(lm(train\_sg$meta\_knn~train\_sg$meta\_rf), col="red"))

hist(train\_sg$predicted, xlab = "Residuals", main ='Histogram of train Residuals', col="yellow")

plot(test\_sg$meta\_knn,test\_sg$meta\_rf,abline(lm(test\_sg$meta\_knn~test\_sg$meta\_rf), col="purple"))

hist(test\_sg$predicted, xlab = "Residuals", main ='Histogram of test Residuals', col="violet")

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the Knit button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

## speed dist

## Min. : 4.0 Min. : 2.00

## 1st Qu.:12.0 1st Qu.: 26.00

## Median :15.0 Median : 36.00

## Mean :15.4 Mean : 42.98

## 3rd Qu.:19.0 3rd Qu.: 56.00

## Max. :25.0 Max. :120.00

Including Plots

You can also embed plots, for example:

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