

STP598 Final Project: Predicting 2016 Election Vote Choices

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1 Variable Selection

```
library(dplyr)

##
## Attaching package: 'dplyr'
##
## The following objects are masked from 'package:stats':
##
##   filter, lag
##
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

mydata <- dplyr::select(x,
  CC16_401, #whether voted or not
  CC16_410a, #vote for
  gender, #gender
  educ, #education
  race, #race
  marstat, #marriage
  inputstate, #state
  religpew, #religion
  industryclass, #industry class
  ownhome, #home owner
  immstat, #immigrant
  faminc, #family income
  employ, #employment status
  pid7, #party id
  CC16_302, #national econ better: past
  CC16_303, #homehold income better: past
  CC16_304, # national econ better: next
  CC16_307, # feel safe about police
  CC16_321a,
  CC16_321b,
  CC16_320a,
  CC16_320b,
  CC16_331_1,
  CC16_331_2,
```

```

        CC16_331_3,
        CC16_331_7,
        CC16_332a,
        CC16_332b,
        CC16_332c,
        CC16_332f,
        CC16_334c,
        CC16_334d,
        CC16_335,
        CC16_337_1,
        CC16_337_2,
        CC16_337_3)

mydata$race <- factor(mydata$race, ordered = FALSE)
mydata$inputstate <- factor(mydata$inputstate, ordered = FALSE)
mydata$religpew <- factor(mydata$religpew, ordered = FALSE)
mydata$faminc[mydata$faminc == "Prefer not to say"] <- NA

mydata <- na.omit(mydata)

mydata2 <- dplyr::select(x,
        CC16_401, #whether voted or not
        CC16_410a, #vote for
        gender, #gender
        educ, #education
        race, #race
        marstat, #marriage
        inputstate, #state
        religpew, #religion
        industryclass, #industry class
        ownhome, #home owner
        immstat, #immigrant
        faminc, #family income
        employ) #employment status)

mydata2 <- na.omit(mydata2)

dim(mydata)

## [1] 34224    36
dim(mydata2)

## [1] 39864    13

```