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# load libraries
library(tidyverse)
library(caret)

# import and clean dataset
load("data/recovery.rdata")

dat %>%
  na.omit()

set.seed(5929)
final1 =
  dat[sample(1:10000, 2000),] %>%

  janitor::clean_names() %>%
  mutate (gender=as.factor(gender),
          hypertension=as.factor(hypertension),
          diabetes=as.factor(diabetes),
          vaccine=as.factor(vaccine),
          severity=as.factor(severity),
          study=as.factor(study))

set.seed(3186)
final2 =
  dat[sample(1:10000, 2000),] %>%

  janitor::clean_names() %>%
  mutate (gender=as.factor(gender),
          hypertension=as.factor(hypertension),
          diabetes=as.factor(diabetes),
          vaccine=as.factor(vaccine),
          severity=as.factor(severity),
          study=as.factor(study))

final = merge(final1, final2, all=TRUE) %>%
  select(-id)

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#linear regression model

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