P8106_group2recovery_primaryanalysis

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Import and data manipulation

```
# Load recovery.RData environment
load("./recovery.Rdata")

dat %>% na.omit()

# dat1 draw a random sample of 2000 participants Uni:3307
set.seed(3307)

dat1 = dat[sample(1:10000, 2000),]

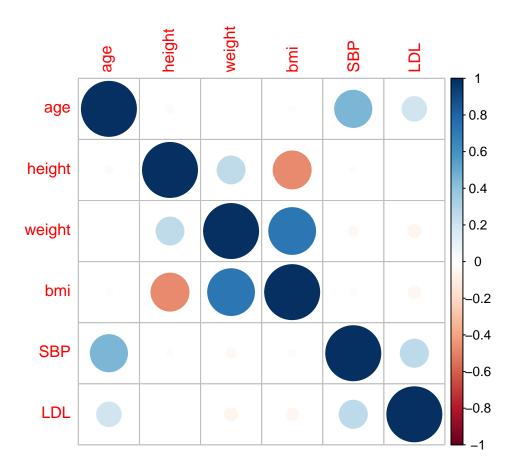
dat1 =
   dat1[, -1] %>%
   mutate(
     gender = as.factor(gender),
     race = as.factor(race),
     smoking = as.factor(smoking),
```

```
hypertension = as.factor(hypertension),
   diabetes = as.factor(diabetes),
   vaccine = as.factor(vaccine),
   severity = as.factor(severity),
   study = as.factor(
      case_when(study == "A" ~ 1, study == "B" ~ 2, study == "C" ~ 3)
     )
   )
# dat2 draw a random sample of 2000 participants Uni:2493
set.seed(2493)
dat2 = dat[sample(1:10000, 2000),]
dat2 =
 dat2[, -1] %>%
  mutate(
   gender = as.factor(gender),
   race = as.factor(race),
   smoking = as.factor(smoking),
   hypertension = as.factor(hypertension),
   diabetes = as.factor(diabetes),
   vaccine = as.factor(vaccine),
   severity = as.factor(severity),
   study = as.factor(
     case_when(study == "A" ~ 1, study == "B" ~ 2, study == "C" ~ 3)
   )
# Merged dataset with unique observation
covid_dat = rbind(dat1, dat2) %>%
  unique()
covid_dat2 = model.matrix(recovery_time ~ ., covid_dat)[, -1]
# Partition dataset into two parts: training data (70%) and test data (30%)
rowTrain = createDataPartition(y = covid_dat$recovery_time, p = 0.7, list = FALSE)
trainData = covid_dat[rowTrain, ]
testData = covid_dat[-rowTrain, ]
ctrl1 = trainControl(method = "repeatedcv", number = 10, repeats = 5)
```

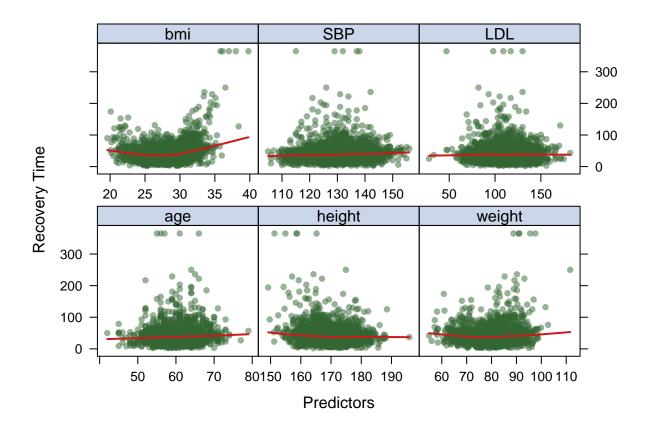
Data visualization

Correlation plot

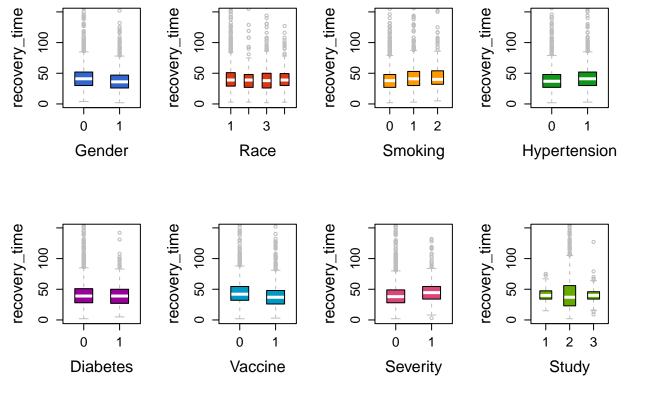
```
corr_dat = covid_dat[rowTrain,] %>%
  dplyr::select('age', 'height', 'weight', 'bmi', 'SBP', 'LDL')
corrplot(cor(corr_dat), method = "circle", type = "full")
```



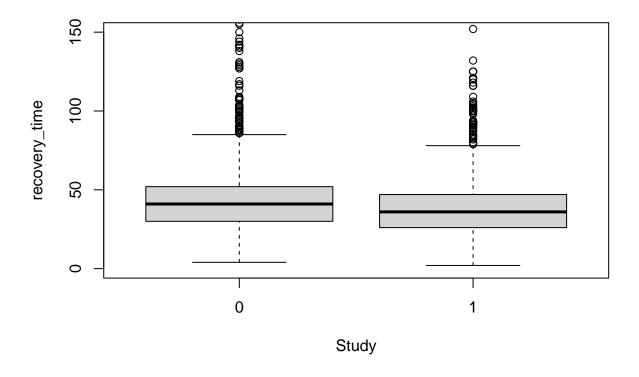
Feature plot



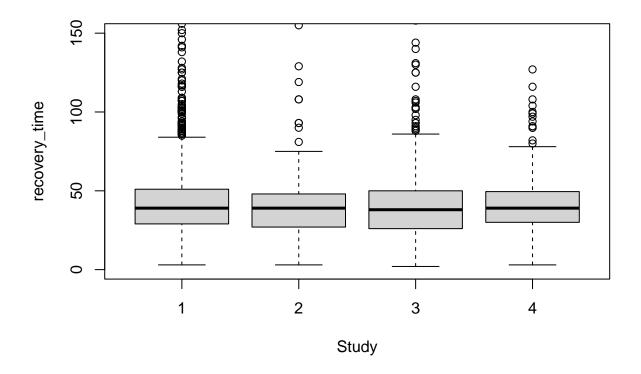
Boxplot



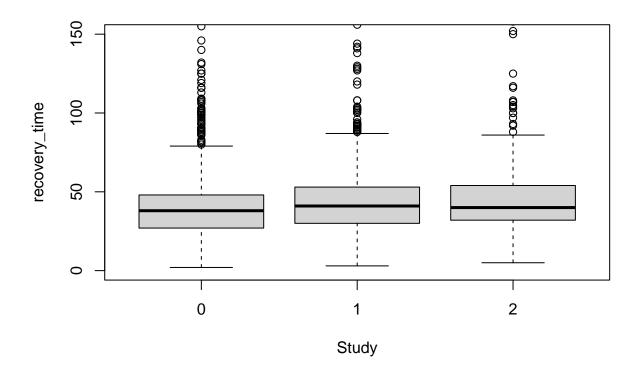
bp_gender = boxplot(recovery_time ~ gender, data = trainData, xlab = "Study", ylim = c(0, 150))



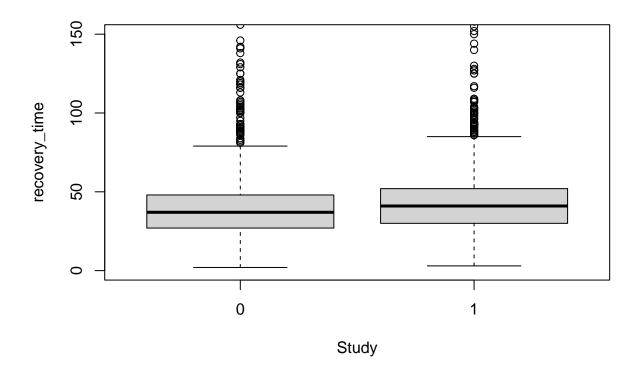
bp_race = boxplot(recovery_time ~ race, data = trainData, xlab = "Study", ylim = c(0, 150))



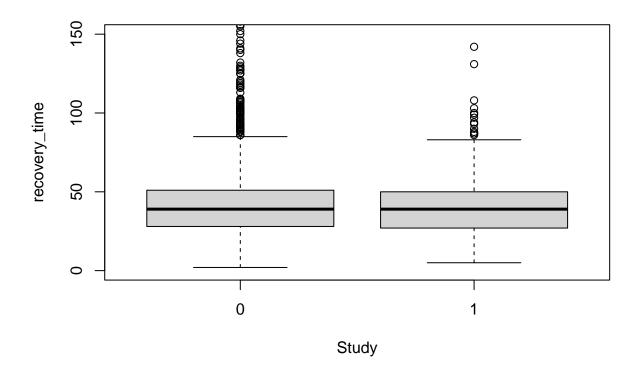
bp_smoking = boxplot(recovery_time ~ smoking, data = trainData, xlab = "Study", ylim = c(0, 150))



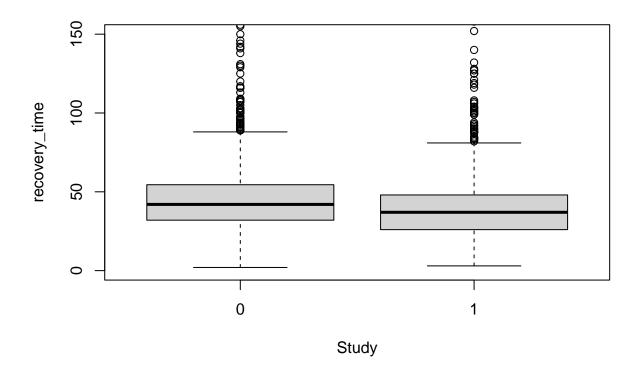
bp_hypertension = boxplot(recovery_time ~ hypertension, data = trainData, xlab = "Study", ylim = c(0, 1



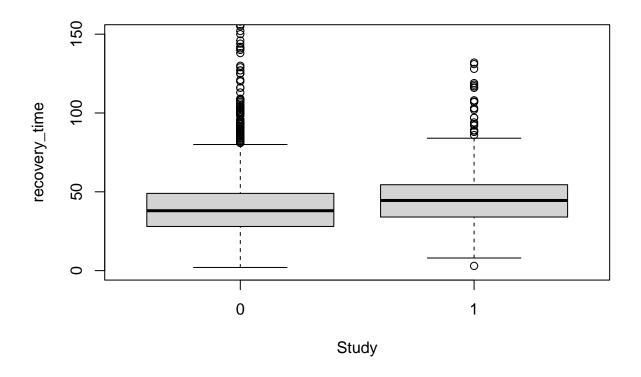
bp_diabetes = boxplot(recovery_time ~ diabetes, data = trainData, xlab = "Study", ylim = c(0, 150))



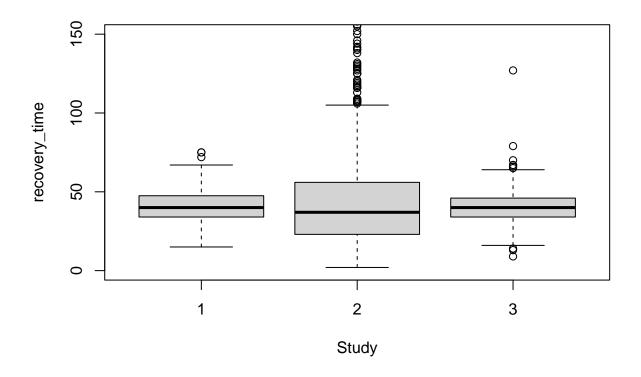
bp_vaccine = boxplot(recovery_time ~ vaccine, data = trainData, xlab = "Study", ylim = c(0, 150))



bp_severity = boxplot(recovery_time ~ severity, data = trainData, xlab = "Study", ylim = c(0, 150))



bp_study = boxplot(recovery_time ~ study, data = trainData, xlab = "Study", ylim = c(0, 150))

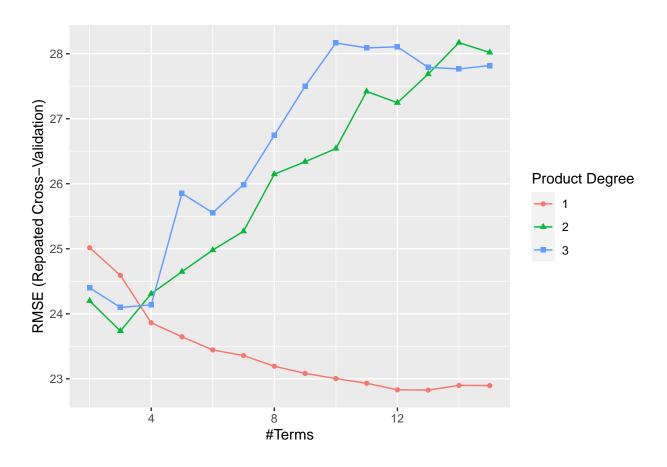


Model training

GAM

```
## Formula:
## .outcome ~ gender1 + race2 + race3 + race4 + smoking1 + smoking2 +
       hypertension1 + diabetes1 + vaccine1 + severity1 + study2 +
##
       study3 + s(age) + s(SBP) + s(LDL) + s(bmi) + s(height) +
##
       s(weight)
##
## Estimated degrees of freedom:
## 0.765 0.000 0.000 7.872 4.491 0.430 total = 26.56
## GCV score: 495.0358
# test error
pred.gam = predict(gam.fit, newdata = covid_dat2[-rowTrain,])
gam.RMSE = mean((pred.gam - covid_dat$recovery_time[-rowTrain])^2)
gam.RMSE
## [1] 502.8183
```

MARS



```
mars.fit$bestTune
```

```
## nprune degree
## 12 13 1
```

mars.fit\$finalModel

```
## Selected 12 of 20 terms, and 8 of 18 predictors (nprune=13)
## Termination condition: RSq changed by less than 0.001 at 20 terms
## Importance: bmi, vaccine1, severity1, gender1, hypertension1, study2, ...
## Number of terms at each degree of interaction: 1 11 (additive model)
## GCV 500.9977 RSS 1236067 GRSq 0.3893063 RSq 0.3999563

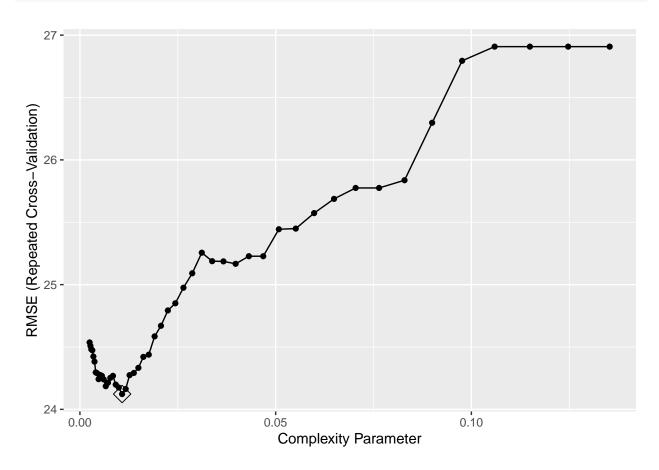
# test error
pred.mars = predict(mars.fit, newdata = covid_dat2[-rowTrain,])
mars.RMSE = mean((pred.mars - covid_dat$recovery_time[-rowTrain])^2)
mars.RMSE
```

[1] 505.8689

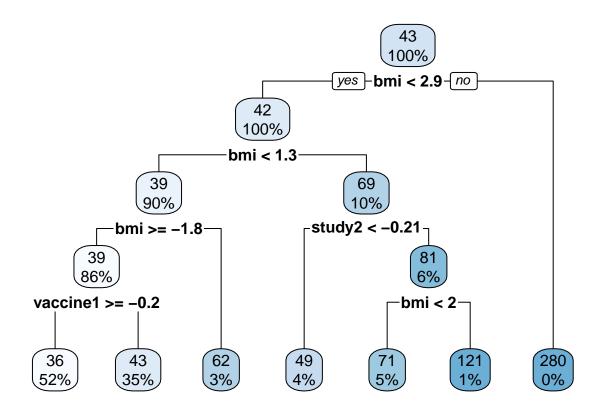
Regression tree

cp ## 19 0.01077408

```
#plot of the tree
ggplot(rpart.fit, highlight = TRUE)
```



rpart.plot(rpart.fit\$finalModel)



```
# Report the variable importance
summary(rpart.fit$finalModel, las = 2, cBars = 19, cex.names = 0.6)
```

```
## Call:
   (function (formula, data, weights, subset, na.action = na.rpart,
##
       method, model = FALSE, x = FALSE, y = TRUE, parms, control,
##
       cost, ...)
## {
##
       Call <- match.call()</pre>
##
       if (is.data.frame(model)) {
##
            m \leftarrow model
            model <- FALSE
##
##
       }
##
       else {
            indx <- match(c("formula", "data", "weights", "subset"),</pre>
##
##
                names(Call), nomatch = 0)
            if (indx[1] == 0)
##
                stop("a 'formula' argument is required")
##
##
            temp <- Call[c(1, indx)]</pre>
##
            temp$na.action <- na.action</pre>
##
            temp[[1]] <- quote(stats::model.frame)</pre>
##
            m <- eval.parent(temp)</pre>
##
##
       Terms <- attr(m, "terms")</pre>
##
       if (any(attr(Terms, "order") > 1))
##
            stop("Trees cannot handle interaction terms")
```

```
##
       Y <- model.response(m)
##
       wt <- model.weights(m)</pre>
##
       if (any(wt < 0))
##
            stop("negative weights not allowed")
##
       if (!length(wt))
##
            wt <- rep(1, nrow(m))
##
       offset <- model.offset(m)
##
       X <- rpart.matrix(m)</pre>
##
       nobs <- nrow(X)
##
       nvar <- ncol(X)</pre>
##
       if (missing(method)) {
            method <- if (is.factor(Y) || is.character(Y))</pre>
##
##
                "class"
##
            else if (inherits(Y, "Surv"))
##
                "exp"
##
            else if (is.matrix(Y))
##
                "poisson"
##
            else "anova"
##
       }
##
       if (is.list(method)) {
##
            mlist <- method
##
            method <- "user"
            init <- if (missing(parms))</pre>
##
                mlist$init(Y, offset, wt = wt)
##
##
            else mlist$init(Y, offset, parms, wt)
##
            keep <- rpartcallback(mlist, nobs, init)</pre>
##
            method.int <- 4
##
            parms <- init$parms</pre>
##
       }
       else {
##
##
            method.int <- pmatch(method, c("anova", "poisson", "class",</pre>
##
                "exp"))
##
            if (is.na(method.int))
##
                stop("Invalid method")
            method <- c("anova", "poisson", "class", "exp")[method.int]</pre>
##
##
            if (method.int == 4)
##
                method.int <- 2
##
            init <- if (missing(parms))</pre>
                get(paste("rpart", method, sep = "."), envir = environment())(Y,
##
##
                     offset, , wt)
##
            else get(paste("rpart", method, sep = "."), envir = environment())(Y,
##
                offset, parms, wt)
            ns <- asNamespace("rpart")</pre>
##
            if (!is.null(init$print))
##
                environment(init$print) <- ns</pre>
##
##
            if (!is.null(init$summary))
                environment(init$summary) <- ns</pre>
##
##
            if (!is.null(init$text))
##
                environment(init$text) <- ns</pre>
       }
##
##
       Y <- init$y
       xlevels <- .getXlevels(Terms, m)</pre>
##
##
       cats <- rep(0, ncol(X))
       if (!is.null(xlevels)) {
##
```

```
##
            indx <- match(names(xlevels), colnames(X), nomatch = 0)
##
            cats[indx] <- (unlist(lapply(xlevels, length)))[indx >
##
##
       }
##
       extraArgs <- list(...)</pre>
       if (length(extraArgs)) {
##
            controlargs <- names(formals(rpart.control))</pre>
##
            indx <- match(names(extraArgs), controlargs, nomatch = 0)</pre>
##
##
            if (any(indx == 0))
                stop(gettextf("Argument %s not matched", names(extraArgs)[indx ==
##
##
                    0]), domain = NA)
       }
##
       controls <- rpart.control(...)</pre>
##
       if (!missing(control))
##
##
            controls[names(control)] <- control</pre>
##
       xval <- controls$xval
##
       if (is.null(xval) || (length(xval) == 1 && xval == 0) ||
##
            method == "user") {
##
           xgroups <- 0
           xval <- 0
##
##
##
       else if (length(xval) == 1) {
##
            xgroups <- sample(rep(1:xval, length.out = nobs), nobs,</pre>
                replace = FALSE)
##
##
       }
##
       else if (length(xval) == nobs) {
##
           xgroups <- xval
           xval <- length(unique(xgroups))</pre>
##
       }
##
       else {
##
            if (!is.null(attr(m, "na.action"))) {
##
##
                temp <- as.integer(attr(m, "na.action"))</pre>
##
                xval <- xval[-temp]</pre>
##
                if (length(xval) == nobs) {
##
                    xgroups <- xval
##
                    xval <- length(unique(xgroups))</pre>
##
                }
##
                else stop("Wrong length for 'xval'")
##
           else stop("Wrong length for 'xval'")
##
##
##
       if (missing(cost))
##
            cost <- rep(1, nvar)</pre>
##
       else {
            if (length(cost) != nvar)
##
##
                stop("Cost vector is the wrong length")
##
            if (any(cost <= 0))
                stop("Cost vector must be positive")
##
##
##
       tfun <- function(x) if (is.matrix(x))
##
           rep(is.ordered(x), ncol(x))
##
       else is.ordered(x)
       labs <- sub("^'(.*)'$", "\\1", attr(Terms, "term.labels"))
##
##
       isord <- unlist(lapply(m[labs], tfun))</pre>
```

```
##
       storage.mode(X) <- "double"</pre>
##
       storage.mode(wt) <- "double"</pre>
##
       temp <- as.double(unlist(init$parms))</pre>
##
       if (!length(temp))
##
            temp <- 0
       rpfit <- .Call(C_rpart, ncat = as.integer(cats * !isord),</pre>
##
            method = as.integer(method.int), as.double(unlist(controls)),
##
            temp, as.integer(xval), as.integer(xgroups), as.double(t(init$y)),
##
##
            X, wt, as.integer(init$numy), as.double(cost))
       nsplit <- nrow(rpfit$isplit)</pre>
##
##
       ncat <- if (!is.null(rpfit$csplit))</pre>
##
            nrow(rpfit$csplit)
##
       else 0
       if (nsplit == 0)
##
##
            xval <- 0
##
       numcp <- ncol(rpfit$cptable)</pre>
##
       temp <- if (nrow(rpfit$cptable) == 3)</pre>
            c("CP", "nsplit", "rel error")
##
       else c("CP", "nsplit", "rel error", "xerror", "xstd")
##
       dimnames(rpfit$cptable) <- list(temp, 1:numcp)</pre>
##
##
       tname <- c("<leaf>", colnames(X))
##
       splits <- matrix(c(rpfit$isplit[, 2:3], rpfit$dsplit), ncol = 5,</pre>
##
            dimnames = list(tname[rpfit$isplit[, 1] + 1], c("count",
                 "ncat", "improve", "index", "adj")))
##
       index <- rpfit$inode[, 2]</pre>
##
##
       nadd <- sum(isord[rpfit$isplit[, 1]])</pre>
##
       if (nadd > 0) {
            newc <- matrix(0, nadd, max(cats))</pre>
##
##
            cvar <- rpfit$isplit[, 1]</pre>
##
            indx <- isord[cvar]</pre>
##
            cdir <- splits[indx, 2]</pre>
##
            ccut <- floor(splits[indx, 4])</pre>
##
            splits[indx, 2] <- cats[cvar[indx]]</pre>
##
            splits[indx, 4] <- ncat + 1:nadd</pre>
##
            for (i in 1:nadd) {
##
                newc[i, 1:(cats[(cvar[indx])[i]])] <- -as.integer(cdir[i])</pre>
##
                newc[i, 1:ccut[i]] <- as.integer(cdir[i])</pre>
##
            catmat <- if (ncat == 0)
##
                newc
##
            else {
##
##
                cs <- rpfit$csplit
                ncs <- ncol(cs)</pre>
##
                ncc <- ncol(newc)</pre>
##
##
                 if (ncs < ncc)
##
                     cs <- cbind(cs, matrix(0, nrow(cs), ncc - ncs))
##
                rbind(cs, newc)
##
            }
##
            ncat <- ncat + nadd</pre>
##
##
       else catmat <- rpfit$csplit</pre>
##
       if (nsplit == 0) {
##
            frame <- data.frame(row.names = 1, var = "<leaf>", n = rpfit$inode[,
                 5], wt = rpfit$dnode[, 3], dev = rpfit$dnode[, 1],
##
```

```
##
                yval = rpfit$dnode[, 4], complexity = rpfit$dnode[,
##
                    2], ncompete = 0, nsurrogate = 0)
##
       }
##
       else {
##
           temp <- ifelse(index == 0, 1, index)</pre>
           svar <- ifelse(index == 0, 0, rpfit$isplit[temp, 1])</pre>
##
           frame <- data.frame(row.names = rpfit$inode[, 1], var = tname[svar +</pre>
##
                1], n = rpfit$inode[, 5], wt = rpfit$dnode[, 3],
##
##
                dev = rpfit$dnode[, 1], yval = rpfit$dnode[, 4],
                complexity = rpfit$dnode[, 2], ncompete = pmax(0,
##
##
                    rpfit$inode[, 3] - 1), nsurrogate = rpfit$inode[,
##
                    4])
       }
##
##
       if (method.int == 3) {
##
           numclass <- init$numresp - 2</pre>
            nodeprob <- rpfit$dnode[, numclass + 5]/sum(wt)</pre>
##
##
            temp <- pmax(1, init$counts)</pre>
##
            temp <- rpfit$dnode[, 4 + (1:numclass)] %*% diag(init$parms$prior/temp)</pre>
##
           yprob <- temp/rowSums(temp)</pre>
            yval2 <- matrix(rpfit$dnode[, 4 + (0:numclass)], ncol = numclass +</pre>
##
##
##
           frame$yval2 <- cbind(yval2, yprob, nodeprob)</pre>
##
       }
##
       else if (init$numresp > 1)
##
           frame$yval2 <- rpfit$dnode[, -(1:3), drop = FALSE]</pre>
##
       if (is.null(init\summary))
##
            stop("Initialization routine is missing the 'summary' function")
       functions <- if (is.null(init$print))</pre>
##
           list(summary = init$summary)
##
       else list(summary = init$summary, print = init$print)
##
##
       if (!is.null(init$text))
##
            functions <- c(functions, list(text = init$text))</pre>
       if (method == "user")
##
##
           functions <- c(functions, mlist)</pre>
##
       where <- rpfit$which
##
       names(where) <- row.names(m)</pre>
##
       ans <- list(frame = frame, where = where, call = Call, terms = Terms,
##
            cptable = t(rpfit$cptable), method = method, parms = init$parms,
##
            control = controls, functions = functions, numresp = init$numresp)
##
       if (nsplit)
##
           ans$splits = splits
##
       if (ncat > 0)
            ans$csplit <- catmat + 2
##
##
       if (nsplit)
##
           ans$variable.importance <- importance(ans)</pre>
##
       if (model) {
##
            ans$model <- m
##
            if (missing(y))
##
                y <- FALSE
       }
##
##
       if (y)
##
           ans$y <- Y
##
       if (x) {
##
           ansx < - X
```

```
##
           ans$wt <- wt
       }
##
       ans$ordered <- isord
##
       if (!is.null(attr(m, "na.action")))
##
##
           ans$na.action <- attr(m, "na.action")</pre>
       if (!is.null(xlevels))
##
           attr(ans, "xlevels") <- xlevels
##
       if (method == "class")
##
##
           attr(ans, "ylevels") <- init$ylevels</pre>
       class(ans) <- "rpart"</pre>
##
##
## \})(formula = .outcome ~ ., data = list(c(-0.491180822761473,
## 0.415420284546335, -1.17113165324233, 0.642070561373287, -0.0378802691075688,
## 0.415420284546335, 0.415420284546335, 2.4552727759889, -1.85108248372319,
## -0.491180822761473, -0.717831099588425, 1.5486716686811, -0.0378802691075688,
## 0.868720838200239, 1.32202139185414, -0.944481376415377, -0.0378802691075688,
## -0.717831099588425, -1.17113165324233, -1.62443220689623, 0.188770007719383,
## -0.717831099588425, -0.0378802691075688, 0.642070561373287, 1.5486716686811,
## -0.491180822761473, -0.717831099588425, 0.415420284546335, 0.188770007719383,
## 1.32202139185414, -1.17113165324233, 0.642070561373287, 0.415420284546335,
## 0.415420284546335, -0.717831099588425, 0.868720838200239, 0.188770007719383,
## -0.0378802691075688, 1.09537111502719, -0.944481376415377, -0.491180822761473,
## 2.4552727759889, -2.30438303737709, 0.642070561373287, -1.39778193006928,
## 1.77532194550805, 0.188770007719383, 0.415420284546335, -1.39778193006928,
## -2.53103331420404, -0.264530545934521, 1.32202139185414, 1.32202139185414,
## -0.0378802691075688, -0.491180822761473, 0.415420284546335, -0.0378802691075688,
## -0.717831099588425, -0.264530545934521, -1.17113165324233, 0.415420284546335,
## -1.85108248372319, 1.09537111502719, 0.188770007719383, 1.09537111502719,
## -1.39778193006928, 0.188770007719383, 0.642070561373287, -1.17113165324233,
## -0.0378802691075688, 1.09537111502719, -1.39778193006928, -0.944481376415377,
## 1.5486716686811, -0.0378802691075688, -0.717831099588425, 0.188770007719383,
## -0.944481376415377, -1.62443220689623, -0.491180822761473, 1.32202139185414,
## 2.001972222335, 0.188770007719383, 1.32202139185414, 2.68192305281586,
## -0.264530545934521, 0.188770007719383, 0.868720838200239, 0.868720838200239,
## 0.188770007719383, 0.642070561373287, -0.264530545934521, 1.5486716686811,
## -0.0378802691075688, -0.491180822761473, 0.868720838200239, -0.264530545934521,
## 0.415420284546335, 0.415420284546335, 0.415420284546335, -0.264530545934521,
## -0.491180822761473, -0.491180822761473, -0.264530545934521, -0.491180822761473,
## -0.944481376415377, -0.0378802691075688, 0.868720838200239, 0.415420284546335,
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## -0.0378802691075688, 0.868720838200239, -1.17113165324233, -0.944481376415377,
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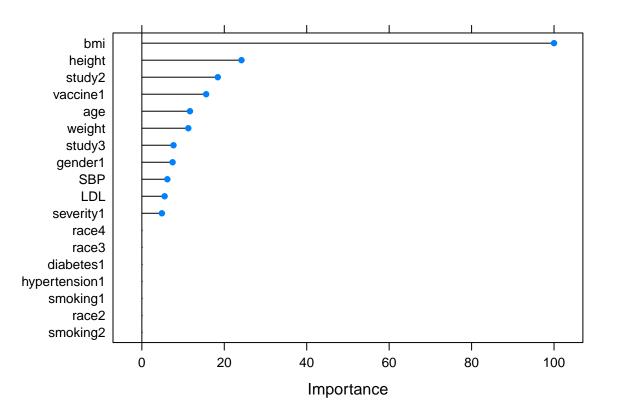
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       20, 7, 0, 4, 5, 2, 0, 30, 0))
##
     n = 2513
##
##
             CP nsplit rel error
## 1 0.21794422
                     0 1.0000000
## 2 0.09489917
                     1 0.7820558
## 3 0.02965163
                     2 0.6871566
## 4 0.02015958
                     4 0.6278534
## 5 0.01231462
                     5 0.6076938
                     6 0.5953792
## 6 0.01077408
## Variable importance
##
        bmi
              study2
                       study3 vaccine1
                                          height
                                                   weight
##
         82
                   7
                            3
                                      3
                                               2
                                                        2
##
## Node number 1: 2513 observations,
                                         complexity param=0.2179442
     mean=43.10665, MSE=819.722
##
##
     left son=2 (2505 obs) right son=3 (8 obs)
##
     Primary splits:
                                 to the left, improve=0.217944200, (0 missing)
##
         bmi
                  < 2.913112
                                 to the right, improve=0.045485090, (0 missing)
##
                  < -1.850917
         height
         weight
                                 to the left, improve=0.036833680, (0 missing)
##
                  < 1.204033
                                 to the right, improve=0.015906280, (0 missing)
##
         vaccine1 < -0.2017165
##
         LDL
                  < -2.711449
                                 to the right, improve=0.007447712, (0 missing)
##
## Node number 2: 2505 observations,
                                         complexity param=0.09489917
     mean=42.3513, MSE=595.0287
##
##
     left son=4 (2250 obs) right son=5 (255 obs)
##
     Primary splits:
##
         bmi
                  < 1.278118
                                 to the left, improve=0.13115230, (0 missing)
##
                  < -0.5889625
                                 to the right, improve=0.03068432, (0 missing)
         height
##
                                 to the right, improve=0.02439458, (0 missing)
         vaccine1 < -0.2017165
##
                                  to the left, improve=0.02245563, (0 missing)
         weight
                  < 0.8685148
##
         gender1 < 0.02188708
                                 to the right, improve=0.01050541, (0 missing)
##
     Surrogate splits:
##
         height < -2.086482
                               to the right, agree=0.903, adj=0.043, (0 split)
##
                               to the left, agree=0.901, adj=0.027, (0 split)
         weight < 1.979917
##
## Node number 3: 8 observations
##
     mean=279.625, MSE=15057.23
##
## Node number 4: 2250 observations,
                                         complexity param=0.02015958
     mean=39.37733, MSE=366.3185
##
##
     left son=8 (2171 obs) right son=9 (79 obs)
##
     Primary splits:
##
                                   to the right, improve=0.05038476, (0 missing)
         bmi
                   < -1.846538
                                   to the right, improve=0.03110116, (0 missing)
##
         vaccine1 < -0.2017165
##
                   < 0.02188708
                                   to the right, improve=0.01965444, (0 missing)
         gender1
##
                                   to the right, improve=0.01904932, (0 missing)
         weight
                   < -1.074692
##
         severity1 < 1.260735
                                   to the left, improve=0.01607559, (0 missing)
##
     Surrogate splits:
##
         weight < -2.039305
                               to the right, agree=0.972, adj=0.203, (0 split)
```

```
##
## Node number 5: 255 observations,
                                        complexity param=0.02965163
##
     mean=68.59216, MSE=1846.438
     left son=10 (100 obs) right son=11 (155 obs)
##
##
     Primary splits:
         study2 < -0.205099
                               to the left, improve=0.12803110, (0 missing)
##
                               to the left, improve=0.11038570, (0 missing)
##
         bmi
                < 2.004782
                               to the right, improve=0.05332546, (0 missing)
##
         study3 < 0.7173617
##
         age
                < 0.7553957
                               to the left, improve=0.03537199, (0 missing)
##
         height < -0.3533976
                               to the right, improve=0.02828122, (0 missing)
##
     Surrogate splits:
                                   to the right, agree=0.804, adj=0.50, (0 split)
##
         study3
                   < 0.7173617
##
         height
                   < -0.08418054 to the right, agree=0.643, adj=0.09, (0 split)</pre>
                                  to the right, agree=0.635, adj=0.07, (0 split)
##
         weight
                   < 2.126706
##
                                  to the right, agree=0.631, adj=0.06, (0 split)
         diabetes1 < 0.9375758
##
         race4
                   < 1.345332
                                  to the right, agree=0.616, adj=0.02, (0 split)
##
  Node number 8: 2171 observations,
                                         complexity param=0.01231462
     mean=38.55781, MSE=315.8146
##
##
     left son=16 (1301 obs) right son=17 (870 obs)
##
     Primary splits:
         vaccine1 < -0.2017165
                                  to the right, improve=0.03699883, (0 missing)
##
##
                   < 0.769453
                                  to the left, improve=0.02836350, (0 missing)
         bmi
         gender1
                                  to the right, improve=0.02166156, (0 missing)
##
                   < 0.02188708
##
         severity1 < 1.260735
                                  to the left, improve=0.01768035, (0 missing)
##
         SBP
                   < 0.04158358
                                  to the left,
                                                 improve=0.01480118, (0 missing)
##
     Surrogate splits:
                               to the left, agree=0.602, adj=0.008, (0 split)
##
         height < 2.170512
##
                               to the left, agree=0.602, adj=0.006, (0 split)
         LDL
                < 2.163143
##
                               to the right, agree=0.601, adj=0.005, (0 split)
         age
                < -2.644358
##
         bmi
                < -1.773872
                               to the right, agree=0.601, adj=0.005, (0 split)
##
         SBP
                < 2.540078
                               to the left, agree=0.601, adj=0.003, (0 split)
##
## Node number 9: 79 observations
##
     mean=61.89873, MSE=1228.547
##
## Node number 10: 100 observations
##
     mean=49.45, MSE=157.5675
##
## Node number 11: 155 observations,
                                         complexity param=0.02965163
     mean=80.94194, MSE=2547.113
     left son=22 (124 obs) right son=23 (31 obs)
##
##
     Primary splits:
##
         bmi
                < 2.004782
                               to the left, improve=0.15673680, (0 missing)
##
         height < -2.288395
                               to the right, improve=0.06351868, (0 missing)
                               to the left, improve=0.04577189, (0 missing)
##
         age
                < 0.7553957
##
         LDL
                < -0.008955012 to the right, improve=0.03089930, (0 missing)
##
                               to the right, improve=0.02815939, (0 missing)
         SBP
                < 1.915454
##
     Surrogate splits:
##
         height < -2.582851
                               to the right, agree=0.819, adj=0.097, (0 split)
##
## Node number 16: 1301 observations
##
     mean=35.76249, MSE=254.5931
##
```

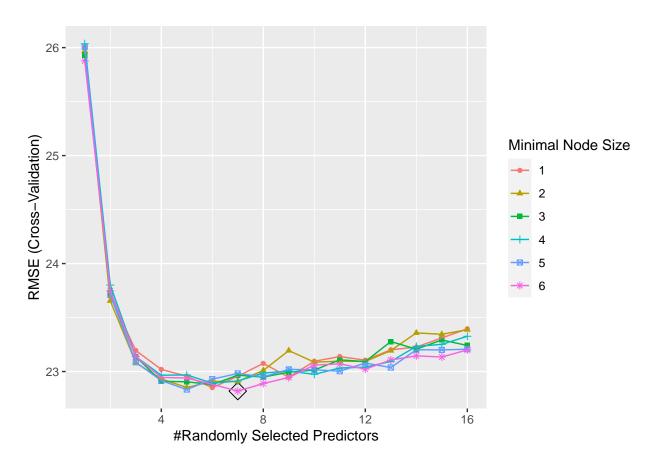
```
## Node number 17: 870 observations
## mean=42.73793, MSE=378.2072
##
## Node number 22: 124 observations
## mean=70.95161, MSE=1468.272
##
## Node number 23: 31 observations
## mean=120.9032, MSE=4866.345

plot(varImp(rpart.fit, scale = TRUE))
```



rpart does not have RMSE

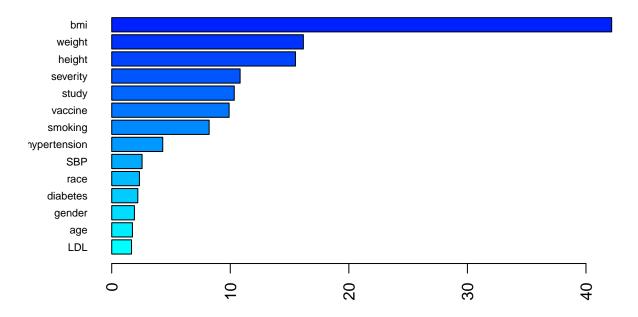
Random Forest



Best tunning parameter rf.fit\$bestTune

mtry splitrule min.node.size
42 7 variance 6

```
las = 2, horiz = TRUE, cex.names = 0.7,
col = colorRampPalette(colors = c("cyan", "blue"))(16))
```



```
# test error

set.seed(2)
rffit_pred = predict(rf.fit, newdata = covid_dat[-rowTrain,])
rffit.RMSE = RMSE(rffit_pred, covid_dat$recovery_time[-rowTrain])
rffit.RMSE
```

Boosting

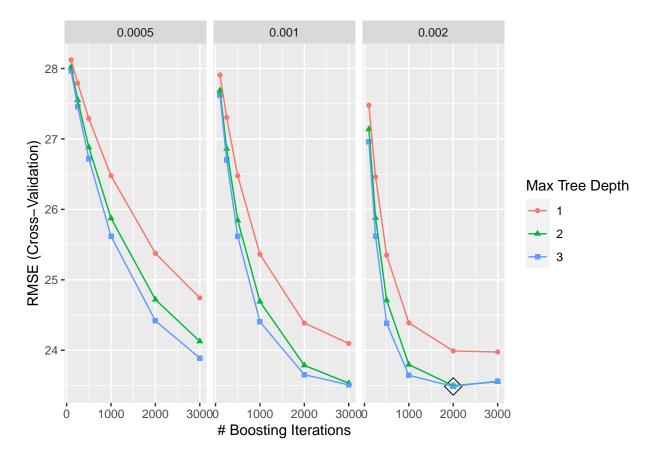
[1] 22.80351

```
tuneGrid = gbm_grid,
    trControl = ctrlboost,
    method = "gbm",
    verbose = FALSE)

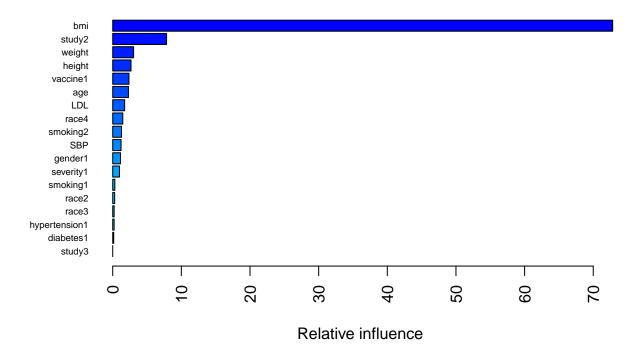
gbm.fit$bestTune
```

n.trees interaction.depth shrinkage n.minobsinnode
53 2000 3 0.002 1

ggplot(gbm.fit, highlight = TRUE)



```
# Report the variable importance
summary(gbm.fit$finalModel, las = 2, cBars = 19, cex.names = 0.6)
```



```
##
                                   rel.inf
                           var
## bmi
                           bmi 72.8306899
## study2
                        study2 7.8446965
## weight
                        weight
                                 3.0431561
## height
                        height
                                 2.6654281
## vaccine1
                      vaccine1
                                 2.3613918
## age
                                 2.2890618
                           age
## LDL
                           LDL
                                1.7390874
                                 1.4669575
## race4
                         race4
## smoking2
                      smoking2
                                 1.2842068
## SBP
                           SBP
                                 1.2143366
## gender1
                       gender1
                                1.1307862
## severity1
                     severity1
                                 0.9822185
## smoking1
                      smoking1
                                 0.3068305
## race2
                         race2
                                 0.2838777
## race3
                         race3
                                 0.2095629
## hypertension1 hypertension1
                                 0.2037763
## diabetes1
                     diabetes1 0.1439356
## study3
                         study3 0.0000000
```

```
#test error
set.seed(2)
pred.gbm = predict(gbm.fit, newdata = covid_dat[-rowTrain,])
gbm.RMSE = RMSE(pred.gbm, covid_dat$recovery_time[-rowTrain])
gbm.RMSE
```

Model selection