R Notebook

This is an [R Markdown](http://rmarkdown.rstudio.com) Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Ctrl+Shift+Enter*.

# The following project was completed to determine the likelihood of a home run every instance of a ball in play given a number of metrics. I chose to use a Random Forest model as it creates a ‘forest’ of decision trees where the output is the class selecting the most trees which removes bias within the data. Random Forest is one of the strongest predictive models that one can create and given the amount of data within the data set, I deemed it too great for that of a single decsion tree to handle.

# Below are the packages I used to create this model.

require(dplyr)

## Loading required package: 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

require(randomForest)

## Loading required package: randomForest

## randomForest 4.6-14

## Type rfNews() to see new features/changes/bug fixes.

##   
## Attaching package: 'randomForest'

## The following object is masked from 'package:dplyr':  
##   
## combine

require(ggplot2)

## Loading required package: ggplot2

##   
## Attaching package: 'ggplot2'

## The following object is masked from 'package:randomForest':  
##   
## margin

require(ROCR)

## Loading required package: ROCR

require(corrplot)

## Loading required package: corrplot

## corrplot 0.84 loaded

require(pROC)

## Loading required package: pROC

## Type 'citation("pROC")' for a citation.

##   
## Attaching package: 'pROC'

## The following objects are masked from 'package:stats':  
##   
## cov, smooth, var

library(dplyr)  
library(randomForest)  
library(ggplot2)  
library(ROCR)  
library(corrplot)  
library(pROC)

# I first uploaded the data set in RStudio and checked its summary and structure to gain a better understanding of the data. I noticed that there were 98 NA values within the data set. This consitituted 0.1% of the data set so I deemed it prudent to omit them. I noticed two character attributes that I wanted to obtain a better understanding of the data within them. I decided to see the unique values within each and noticed they could definitely play a factor in predicting a home run.

url <- "https://raw.githubusercontent.com/Chrisboatto/Likelihood-of-a-Homerun/main/Balls%20in%20play.csv"

BallsInPlay <- read.csv(url)

str(BallsInPlay)

## 'data.frame': 61413 obs. of 40 variables:  
## $ X : int 1 2 3 4 5 6 7 8 9 10 ...  
## $ GAME\_ID : int 310 375 17 541 17 1175 569 446 30 462 ...  
## $ DAY\_OR\_NIGHT : chr "N" "N" "N" "N" ...  
## $ TEMPERATURE : int 66 76 71 72 71 70 81 69 65 71 ...  
## $ WEATHER : chr "Cloudy" "Cloudy" "Clear" "Clear" ...  
## $ WIND\_SPEED : int 8 8 10 6 10 6 3 7 10 8 ...  
## $ WIND\_DIRECTION : chr "Out To CF" "R To L" "Out To CF" "Out To CF" ...  
## $ PLAY\_ID : int 14861 18009 792 26000 793 57702 27306 21297 1380 22106 ...  
## $ PITCHER\_ID : int 97 610 38 86 38 75 651 623 836 333 ...  
## $ PITCHER\_SIDE : chr "R" "L" "R" "R" ...  
## $ BATTER\_ID : int 4 8 8 8 20 30 35 37 37 37 ...  
## $ BATTER\_SIDE : chr "R" "R" "R" "R" ...  
## $ STADIUM\_ID : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ INNING : int 6 8 4 2 4 3 4 5 2 7 ...  
## $ INNING\_HALF : chr "Y" "N" "N" "N" ...  
## $ OUTS : int 2 0 0 2 2 2 1 1 0 0 ...  
## $ BALLS : int 1 1 2 3 3 3 0 1 0 1 ...  
## $ STRIKES : int 2 0 1 1 2 2 1 2 2 1 ...  
## $ PITCH\_TYPE : chr "FB" "SI" "CF" "SI" ...  
## $ PITCH\_VELOCITY : num 89.3 92.7 89.2 94.1 94.1 ...  
## $ HORIZONTAL\_BREAK : num -9.58 13.3 4.53 -13.57 -3.4 ...  
## $ INDUCED\_VERTICAL\_BREAK : num 12.59 13.17 7.01 19.38 13.72 ...  
## $ RELEASE\_SIDE : num -3.43 1.6 -3.24 -1.22 -3.09 ...  
## $ RELEASE\_HEIGHT : num 4.22 6.64 5.71 6.64 5.63 ...  
## $ RELEASE\_EXTENSION : num 7.47 5.94 6.12 5.81 6.43 ...  
## $ PITCH\_LOCATION\_SIDE : num -0.1474 0.0378 0.2738 -0.5043 0.7115 ...  
## $ PITCH\_LOCATION\_HEIGHT : num 2.31 1.87 2.9 1.83 2.33 ...  
## $ STRIKE\_ZONE\_BOTTOM : num 1.49 1.51 1.51 1.51 1.67 ...  
## $ STRIKE\_ZONE\_TOP : num 3.27 3.32 3.32 3.32 3.61 ...  
## $ EXIT\_VELOCITY : num 76.7 100.8 65.9 80.6 80.1 ...  
## $ LAUNCH\_ANGLE : num 58.91 -9.28 -24.91 38.36 2.18 ...  
## $ LAUNCH\_DIRECTION : num 33.9 -29.2 -34.7 -22.1 38 ...  
## $ HORIZONTAL\_APPROACH\_ANGLE: num 2.705 -0.429 4.207 -0.526 3.778 ...  
## $ VERTICAL\_APPROACH\_ANGLE : num -4.2 -6.99 -5.67 -6.4 -5.25 ...  
## $ PITCH\_RESULT : chr "InPlay" "InPlay" "InPlay" "InPlay" ...  
## $ EVENT\_RESULT : chr "field\_out" "single" "grounded\_into\_double\_play" "field\_out" ...  
## $ SINGLE\_YES\_OR\_NO : int 0 1 0 0 0 0 1 0 0 0 ...  
## $ DOUBLE\_YES\_OR\_NO : int 0 0 0 0 0 0 0 0 0 1 ...  
## $ TRIPLE\_YES\_OR\_NO : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ HOME\_RUN\_YES\_OR\_NO : int 0 0 0 0 0 0 0 0 0 0 ...

summary(BallsInPlay)

## X GAME\_ID DAY\_OR\_NIGHT TEMPERATURE   
## Min. : 1 Min. : 1 Length:61413 Min. : 32.00   
## 1st Qu.:15354 1st Qu.: 321 Class :character 1st Qu.: 68.00   
## Median :30707 Median : 638 Mode :character Median : 73.00   
## Mean :30707 Mean : 633 Mean : 73.16   
## 3rd Qu.:46060 3rd Qu.: 946 3rd Qu.: 81.00   
## Max. :61413 Max. :1248 Max. :102.00   
##   
## WEATHER WIND\_SPEED WIND\_DIRECTION PLAY\_ID   
## Length:61413 Min. : 0.000 Length:61413 Min. : 1   
## Class :character 1st Qu.: 4.000 Class :character 1st Qu.:15354   
## Mode :character Median : 7.000 Mode :character Median :30707   
## Mean : 7.042 Mean :30707   
## 3rd Qu.:10.000 3rd Qu.:46060   
## Max. :25.000 Max. :61413   
##   
## PITCHER\_ID PITCHER\_SIDE BATTER\_ID BATTER\_SIDE   
## Min. : 1.0 Length:61413 Min. : 1.0 Length:61413   
## 1st Qu.:179.0 Class :character 1st Qu.:183.0 Class :character   
## Median :382.0 Mode :character Median :381.0 Mode :character   
## Mean :389.6 Mean :393.4   
## 3rd Qu.:586.0 3rd Qu.:587.0   
## Max. :848.0 Max. :843.0   
##   
## STADIUM\_ID INNING INNING\_HALF OUTS   
## Min. : 1.00 Min. : 1.000 Length:61413 Min. :0.0000   
## 1st Qu.: 8.00 1st Qu.: 3.000 Class :character 1st Qu.:0.0000   
## Median :16.00 Median : 5.000 Mode :character Median :1.0000   
## Mean :16.43 Mean : 4.886 Mean :0.9628   
## 3rd Qu.:25.00 3rd Qu.: 7.000 3rd Qu.:2.0000   
## Max. :32.00 Max. :16.000 Max. :2.0000   
##   
## BALLS STRIKES PITCH\_TYPE PITCH\_VELOCITY   
## Min. :0.000 Min. :0.000 Length:61413 Min. : 32.97   
## 1st Qu.:0.000 1st Qu.:0.000 Class :character 1st Qu.: 84.70   
## Median :1.000 Median :1.000 Mode :character Median : 89.74   
## Mean :1.093 Mean :1.103 Mean : 88.76   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.: 93.52   
## Max. :3.000 Max. :2.000 Max. :101.99   
##   
## HORIZONTAL\_BREAK INDUCED\_VERTICAL\_BREAK RELEASE\_SIDE RELEASE\_HEIGHT   
## Min. :-27.358 Min. :-25.907 Min. :-4.5116 Min. :1.048   
## 1st Qu.:-11.148 1st Qu.: 2.292 1st Qu.:-2.0694 1st Qu.:5.632   
## Median : -2.543 Median : 8.894 Median :-1.4369 Median :5.916   
## Mean : -1.552 Mean : 7.569 Mean :-0.7172 Mean :5.877   
## 3rd Qu.: 7.328 3rd Qu.: 14.925 3rd Qu.: 1.2371 3rd Qu.:6.203   
## Max. : 55.700 Max. : 46.057 Max. : 4.4699 Max. :7.567   
##   
## RELEASE\_EXTENSION PITCH\_LOCATION\_SIDE PITCH\_LOCATION\_HEIGHT  
## Min. :3.353 Min. :-2.1004701 Min. :0.02045   
## 1st Qu.:5.858 1st Qu.:-0.3878030 1st Qu.:1.94587   
## Median :6.147 Median :-0.0019161 Median :2.33972   
## Mean :6.156 Mean : 0.0000245 Mean :2.34947   
## 3rd Qu.:6.446 3rd Qu.: 0.3848440 3rd Qu.:2.74306   
## Max. :8.208 Max. : 2.9690700 Max. :6.21727   
## NA's :68   
## STRIKE\_ZONE\_BOTTOM STRIKE\_ZONE\_TOP EXIT\_VELOCITY LAUNCH\_ANGLE   
## Min. :1.387 Min. :3.075 Min. : 9.333 Min. :-88.067   
## 1st Qu.:1.514 1st Qu.:3.318 1st Qu.: 80.207 1st Qu.: -5.182   
## Median :1.565 Median :3.415 Median : 91.369 Median : 12.932   
## Mean :1.562 Mean :3.410 Mean : 88.800 Mean : 12.493   
## 3rd Qu.:1.591 3rd Qu.:3.464 3rd Qu.: 99.498 3rd Qu.: 30.674   
## Max. :1.768 Max. :3.804 Max. :122.214 Max. : 89.113   
## NA's :15 NA's :15   
## LAUNCH\_DIRECTION HORIZONTAL\_APPROACH\_ANGLE VERTICAL\_APPROACH\_ANGLE  
## Min. :-179.810 Min. :-7.1321 Min. :-27.9678   
## 1st Qu.: -18.590 1st Qu.:-0.5944 1st Qu.: -7.4518   
## Median : -1.674 Median : 0.6888 Median : -6.2681   
## Mean : -1.207 Mean : 0.6290 Mean : -6.4744   
## 3rd Qu.: 15.526 3rd Qu.: 2.0050 3rd Qu.: -5.3037   
## Max. : 179.157 Max. : 7.4695 Max. : -0.2186   
##   
## PITCH\_RESULT EVENT\_RESULT SINGLE\_YES\_OR\_NO DOUBLE\_YES\_OR\_NO   
## Length:61413 Length:61413 Min. :0.0000 Min. :0.00000   
## Class :character Class :character 1st Qu.:0.0000 1st Qu.:0.00000   
## Mode :character Mode :character Median :0.0000 Median :0.00000   
## Mean :0.2049 Mean :0.06549   
## 3rd Qu.:0.0000 3rd Qu.:0.00000   
## Max. :1.0000 Max. :1.00000   
##   
## TRIPLE\_YES\_OR\_NO HOME\_RUN\_YES\_OR\_NO  
## Min. :0.000000 Min. :0.00000   
## 1st Qu.:0.000000 1st Qu.:0.00000   
## Median :0.000000 Median :0.00000   
## Mean :0.005357 Mean :0.04975   
## 3rd Qu.:0.000000 3rd Qu.:0.00000   
## Max. :1.000000 Max. :1.00000   
##

sum(is.na(BallsInPlay))

## [1] 98

BallsInPlay <- na.omit(BallsInPlay)

sum(is.na(BallsInPlay))

## [1] 0

unique(BallsInPlay$WEATHER)

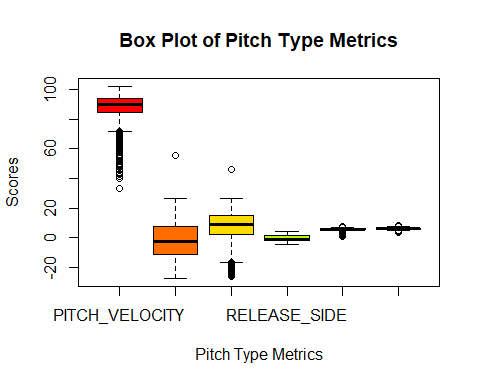
## [1] "Cloudy" "Clear" "Sunny" "Partly Cloudy"  
## [5] "Overcast" "Drizzle" "Rain" "Dome"   
## [9] "Roof Closed" "Snow"

unique(BallsInPlay$WIND\_DIRECTION)

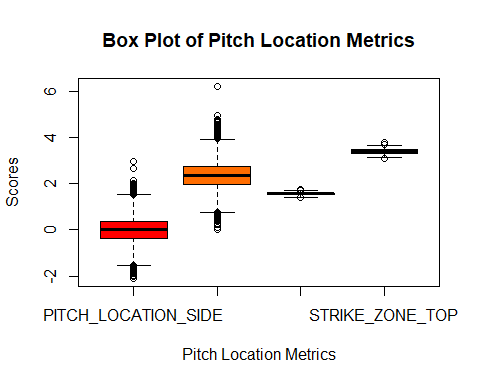
## [1] "Out To CF" "R To L" "Out To LF" "Out To RF" "In From RF"  
## [6] "Varies" "In From CF" "Calm" "In From LF" "L To R"   
## [11] "None"

# I created the lolipop box plots below to gain a better understanding of the interquartile ranges amongst the numeric metrics and where the outliers are. Notice the two outliers amongst the break attributes. Both those outliers were on one single pitch, a fastball. This does not make sense as fastball are supposed to be almost as straight as an arrow. Having a break on your fastball over 40" is not normal and should be seen as an outlier. I used these box plots as a means to subset out any outliers within the data. I removed the two large breaks and and velocity seen under 65mph. Even though the first interquartile range starts at 84.7mph, I deemed it prudent to keep any pitches over 65mph within the data set simply because some pitchers have curveballs that are in the low 70’s. Therefore, setting the subset to 65mph would ensure all curveballs were included. Any pitch recorded below that could be deemed a ‘lob’ from a position player.

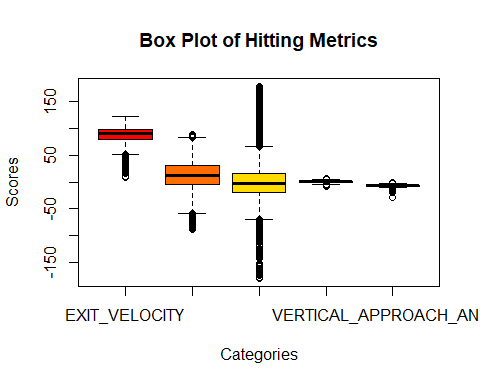
boxplot(BallsInPlay[20:25], col = rainbow(14), main = "Box Plot of Pitch Type Metrics", xlab = "Pitch Type Metrics", ylab = "Scores")



boxplot(BallsInPlay[26:29], col = rainbow(14), main = "Box Plot of Pitch Location Metrics", xlab = "Pitch Location Metrics", ylab = "Scores")



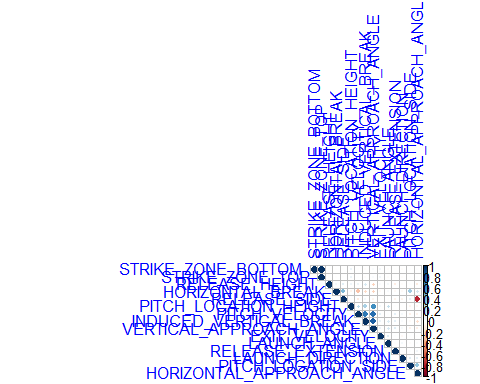
boxplot(BallsInPlay[30:34], col = rainbow(14), main = "Box Plot of Hitting Metrics", xlab = "Categories", ylab = "Scores")



BallsInPlay <- filter(BallsInPlay, PITCH\_VELOCITY > 65)  
BallsInPlay <- filter(BallsInPlay, HORIZONTAL\_BREAK < 40)  
BallsInPlay <- filter(BallsInPlay, INDUCED\_VERTICAL\_BREAK < 40)

# Below is a correlation plot depicting how well each metric is correlated to all others within the data set. The deeper the blue, the more positively correlated the metrics are and the deeper the red, the more negatively correlated.

BallsInPlay\_Cor <- cor(BallsInPlay[20:34])  
corrplot(BallsInPlay\_Cor, type = "upper", order = 'hclust', tl.col = "blue")



# I then trained the data on an 80:20 train to test ratio based on random samples to avoid any bias. Making the ratios split at random is a key factor as I wanted to remove as much bias as possible throughout my entire model creation. I wanted to produce the most fair and unbiased model possible that way I can ensure the highest level of accuracy that way I know my model is correct.

set.seed(49838)  
  
train <- sample(nrow(BallsInPlay), 0.80\*nrow(BallsInPlay), replace = FALSE)  
  
TrainSet <- BallsInPlay[train,]  
TestSet <- BallsInPlay[-train,]

# I then created a base model using the ‘HOME\_RUN\_YES\_OR\_NO’ variable as my dependent and using all others as my independents. This base model will allow me to gain an understanding of what metrics have the highest importance within the model. The importance metric shows how much of an influence the attribute has on the output. If the metric is too high then it could lead to domination thus resulting in an overfit. As you can see below, ‘EVENT\_RESULT’ had the most influence on the dependent variable by a wide margin which is understandable as it shows results of the ball in play much like that of the binary event attributes do. This therefore shold be removed as it is redundant.

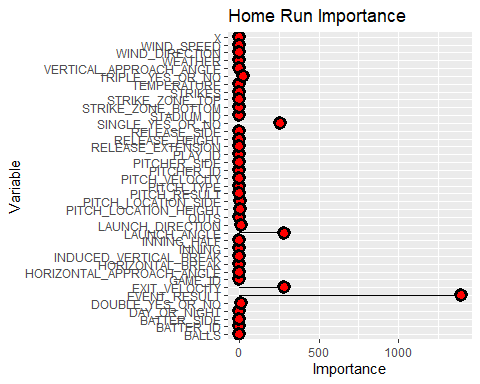
baseModel <- randomForest(HOME\_RUN\_YES\_OR\_NO ~., data = TrainSet, importance = TRUE, ntrees = 50)

## Warning in randomForest.default(m, y, ...): The response has five or fewer  
## unique values. Are you sure you want to do regression?

baseImp <- importance(baseModel)  
baseImp

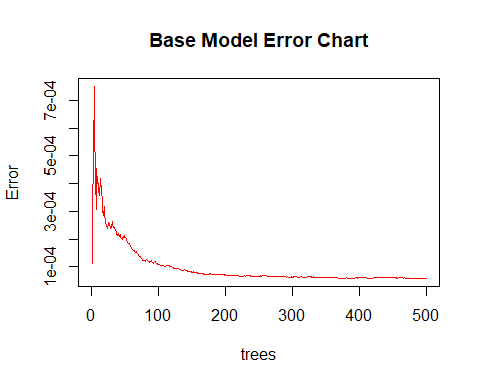
## %IncMSE IncNodePurity  
## X 5.0099746 1.001653e+00  
## GAME\_ID 2.2426579 6.844384e-01  
## DAY\_OR\_NIGHT -0.1894442 1.158529e-01  
## TEMPERATURE 4.3499565 1.074667e+00  
## WEATHER 4.0348361 2.813192e-01  
## WIND\_SPEED 10.7991493 5.452112e-01  
## WIND\_DIRECTION 5.6235893 5.109592e-01  
## PLAY\_ID 2.3282199 8.890891e-01  
## PITCHER\_ID 1.3599197 9.242732e-01  
## PITCHER\_SIDE 2.7185961 2.612332e-02  
## BATTER\_ID 0.5402919 1.200263e+00  
## BATTER\_SIDE 3.3564378 1.089851e+00  
## STADIUM\_ID 3.0980300 5.499674e-01  
## INNING 0.3389796 5.443639e-01  
## INNING\_HALF 1.0987845 6.170041e-02  
## OUTS 7.5286510 1.989748e+00  
## BALLS 2.4009976 1.903504e-01  
## STRIKES 1.6635361 1.422362e-01  
## PITCH\_TYPE 5.0986062 3.517097e-01  
## PITCH\_VELOCITY 7.2644912 1.213967e+00  
## HORIZONTAL\_BREAK 7.7761436 1.182527e+00  
## INDUCED\_VERTICAL\_BREAK 13.6051647 1.309952e+00  
## RELEASE\_SIDE 11.7257556 1.143417e+00  
## RELEASE\_HEIGHT 2.9526899 1.030018e+00  
## RELEASE\_EXTENSION 2.7237389 1.251302e+00  
## PITCH\_LOCATION\_SIDE 7.0784357 2.754237e+00  
## PITCH\_LOCATION\_HEIGHT 4.4519758 3.943158e+00  
## STRIKE\_ZONE\_BOTTOM 1.2898976 5.145010e-01  
## STRIKE\_ZONE\_TOP 0.5228000 5.015621e-01  
## EXIT\_VELOCITY 12.6758795 2.832289e+02  
## LAUNCH\_ANGLE 21.0280766 2.820337e+02  
## LAUNCH\_DIRECTION 11.1615282 1.140947e+01  
## HORIZONTAL\_APPROACH\_ANGLE 12.7383092 1.202245e+00  
## VERTICAL\_APPROACH\_ANGLE 5.9354942 1.130160e+00  
## PITCH\_RESULT 0.0000000 0.000000e+00  
## EVENT\_RESULT 127.3750794 1.394652e+03  
## SINGLE\_YES\_OR\_NO 19.0088381 2.552967e+02  
## DOUBLE\_YES\_OR\_NO 12.2993650 1.385281e+01  
## TRIPLE\_YES\_OR\_NO 12.4898696 2.548329e+01

baseImp <- as.data.frame(baseImp)  
ggplot(baseImp, aes(IncNodePurity, row.names(baseImp))) +   
 geom\_bar(stat = "identity", width = 0.1, fill = "black") +   
 geom\_point(shape = 21, size = 3, colour = "black", fill = "red", stroke = 2) +   
 labs(title = "Home Run Importance", x = "Importance", y = "Variable")



# Checking the error chart, the base model worked well at reducing the chance of errors.

plot(baseModel, col = "Red", main = "Base Model Error Chart")



# I then created a new model on the same dependent variable but by removing the aforementioned ‘EVENT\_RESULT’ column as well others that were not deemed to have an affect on the outcome. I stated the number of nodes to 5 and the number of trees at 100 to obtain an Area Under the Curve (AUC) accuracy metric of over 0.9 which can be found later in the assignment. After many attempts at tuning and pruning, those were the two amounts that I found gave me the best accuracy ratings.

# Notice for this model ‘EXIT\_VELOCITY’ and ‘LAUNCH\_ANGLE’ were the main contributors to home runs. The harder you hit the ball and the higher it’s initial trajectory is, the further the baseball will travel. Players that are able to do both at a high rate will make them highly likely to hit home runs.

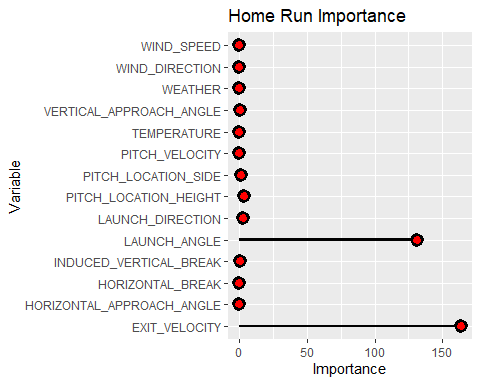
newModel <- randomForest(HOME\_RUN\_YES\_OR\_NO ~ WIND\_DIRECTION + WIND\_SPEED + WEATHER + PITCH\_LOCATION\_HEIGHT + PITCH\_LOCATION\_SIDE + PITCH\_VELOCITY + EXIT\_VELOCITY + LAUNCH\_ANGLE + LAUNCH\_DIRECTION + TEMPERATURE + VERTICAL\_APPROACH\_ANGLE + HORIZONTAL\_APPROACH\_ANGLE + HORIZONTAL\_BREAK + INDUCED\_VERTICAL\_BREAK, data = TrainSet, importance = TRUE, ntrees = 100, maxnodes = 5)

## Warning in randomForest.default(m, y, ...): The response has five or fewer  
## unique values. Are you sure you want to do regression?

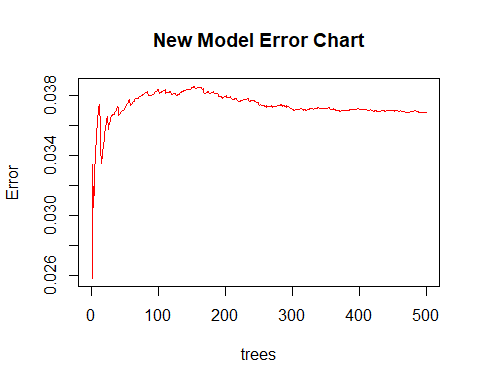
newImp <- importance(newModel)  
newImp

## %IncMSE IncNodePurity  
## WIND\_DIRECTION -0.9470921 3.520130e-03  
## WIND\_SPEED -0.7289524 1.625344e-02  
## WEATHER -1.0444884 1.566758e-04  
## PITCH\_LOCATION\_HEIGHT 9.4186393 3.262207e+00  
## PITCH\_LOCATION\_SIDE 7.7215793 1.261528e+00  
## PITCH\_VELOCITY 3.4522172 1.561907e-01  
## EXIT\_VELOCITY 15.9453040 1.639369e+02  
## LAUNCH\_ANGLE 13.9572448 1.313382e+02  
## LAUNCH\_DIRECTION 11.7503018 3.015155e+00  
## TEMPERATURE -0.5284109 1.386636e-02  
## VERTICAL\_APPROACH\_ANGLE 1.2558494 2.762046e-01  
## HORIZONTAL\_APPROACH\_ANGLE 2.9779239 1.274030e-01  
## HORIZONTAL\_BREAK 1.7137280 1.689273e-01  
## INDUCED\_VERTICAL\_BREAK 2.9141044 4.152442e-01

newImp <- as.data.frame(newImp)  
ggplot(newImp, aes(IncNodePurity, row.names(newImp))) +   
 geom\_bar(stat = "identity", width = 0.1, fill = "black") +   
 geom\_point(shape = 21, size = 3, colour = "black", fill = "red", stroke = 2) +   
 labs(title = "Home Run Importance", x = "Importance", y = "Variable")



plot(newModel, col = "red", main = "New Model Error Chart")



# I used the ‘response’ method to predict the probability of each outcome being a home run. I wanted a numerical result for each observation rather than a value being assigned by using ‘class’. I then bound the scores onto their respective sets that I predicted them from and changed the predictive column names to match each other that way I am then able to bind both the Train and Test sets back together to create one full data set. This will allow me to see all the predictions within one data set.

# I created a Receiver Operator Characteristic (ROC) Curve and calculated the AUC below to show how well the model performed. Judging by the findings, the model performed excellently as the AUC was tabulated at 0.9555 giving a 95% accuracy rating while the ROC had an almost perfect curve to the top left corner showing that the model’s supervised learning worked well.

predTrainSet <- predict(newModel, TrainSet, type = "response")  
predTestSet <- predict(newModel, TestSet, type = "response")

TrainSet <- cbind(TrainSet, predTrainSet)  
TestSet <- cbind(TestSet, predTestSet)

names(TrainSet)[names(TrainSet) == "predTrainSet"] <- "HR\_Pred"  
names(TestSet)[names(TestSet) == "predTestSet"] <- "HR\_Pred"

HR\_Full <- rbind(TrainSet, TestSet)

#ROC Curve

roc\_test <- roc(ifelse(TestSet$HOME\_RUN\_YES\_OR\_NO == "1", "1", "0"), as.numeric(TestSet$HR\_Pred))

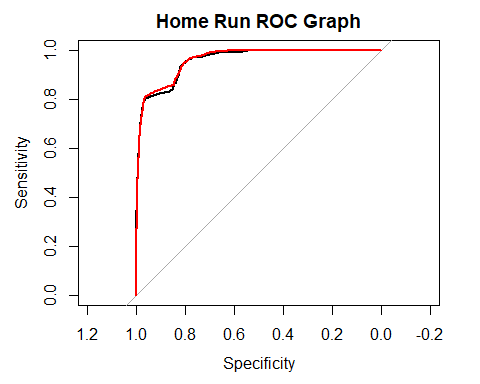
## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

roc\_train <- roc(ifelse(TrainSet$HOME\_RUN\_YES\_OR\_NO == "1", "1", "0"), as.numeric(TrainSet$HR\_Pred))

## Setting levels: control = 0, case = 1  
## Setting direction: controls < cases

plot(roc\_test, col = "black", main = "Home Run ROC Graph")  
lines(roc\_train, col = "red")



auc(HR\_Full$HOME\_RUN\_YES\_OR\_NO, HR\_Full$HR\_Pred)

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Area under the curve: 0.9593

HR\_Full <- select(HR\_Full, c(X, HOME\_RUN\_YES\_OR\_NO, HR\_Pred, EXIT\_VELOCITY, LAUNCH\_ANGLE))  
Least\_Likely\_HR <- filter(HR\_Full, HOME\_RUN\_YES\_OR\_NO == 1)  
Least\_Likely\_HR <- as.data.frame(Least\_Likely\_HR[order(Least\_Likely\_HR$HR\_Pred),])  
Least\_Likely\_HR

## X HOME\_RUN\_YES\_OR\_NO HR\_Pred EXIT\_VELOCITY LAUNCH\_ANGLE  
## 909 35373 1 0.01789934 97.31911 16.28764  
## 2746 32007 1 0.04506613 90.41215 43.61887  
## 309 54224 1 0.04566362 90.69135 38.75647  
## 2536 9431 1 0.04641635 95.92207 41.92793  
## 1547 54458 1 0.04664903 93.83334 37.12984  
## 1361 44525 1 0.04680067 90.06332 32.83775  
## 2449 3019 1 0.04830530 96.09009 28.43735  
## 2725 30073 1 0.04834773 96.44474 38.61403  
## 1752 43882 1 0.04909225 96.04678 39.38582  
## 1260 38770 1 0.04975836 95.43945 42.61938  
## 2966 54599 1 0.05001947 96.62179 41.88134  
## 2696 26959 1 0.05051957 94.31153 28.95669  
## 1506 25715 1 0.05130204 97.10527 38.33521  
## 296 58485 1 0.05156815 99.20364 40.84797  
## 1146 12042 1 0.05162161 93.94756 38.07597  
## 1303 38308 1 0.05169792 90.91332 39.68837  
## 1359 54396 1 0.05219374 89.00999 30.52183  
## 2699 27147 1 0.05242318 93.69385 39.59816  
## 730 18105 1 0.05242726 97.21552 39.66107  
## 2144 52132 1 0.05245326 94.16486 34.58706  
## 1370 43768 1 0.05258916 95.31196 36.04836  
## 2420 132 1 0.05265422 94.88524 32.04637  
## 2208 37113 1 0.05269627 92.37387 30.70554  
## 2621 18187 1 0.05296500 97.24467 37.81923  
## 1018 31904 1 0.05322857 92.50157 35.40067  
## 2975 55024 1 0.05331310 97.65839 37.20420  
## 1209 53035 1 0.05332577 97.10815 37.80321  
## 2064 20200 1 0.05335697 96.15004 28.39285  
## 567 20688 1 0.05340935 96.66641 25.45381  
## 1055 18137 1 0.05354797 95.00702 32.65776  
## 1808 53451 1 0.05363990 95.95780 30.83092  
## 2638 20304 1 0.05367700 97.21420 39.51253  
## 381 3417 1 0.05401175 94.61866 31.65467  
## 710 14901 1 0.05414774 95.19216 34.66744  
## 705 45522 1 0.05417611 97.27592 30.08721  
## 2827 41148 1 0.05422408 91.69514 33.29158  
## 1875 10891 1 0.05425405 95.74507 27.34250  
## 1848 31393 1 0.05432428 94.07866 40.56699  
## 2795 38162 1 0.05436467 90.95894 35.29669  
## 1974 19040 1 0.05442833 95.48400 39.13763  
## 268 59084 1 0.05458106 96.68739 36.25800  
## 699 53575 1 0.05468982 92.59512 32.34681  
## 2042 49937 1 0.05483460 95.88323 29.82980  
## 1443 32212 1 0.05486906 93.21772 38.70855  
## 849 28606 1 0.05488568 94.54356 28.20098  
## 113 39621 1 0.05496766 95.21892 29.17953  
## 2213 24251 1 0.05500813 94.64074 29.32142  
## 2253 60754 1 0.05504092 97.12431 39.62460  
## 347 42380 1 0.05518288 97.24450 39.12400  
## 2484 5506 1 0.05521711 96.70477 41.89565  
## 2478 5226 1 0.05539376 95.54485 27.67147  
## 560 4724 1 0.05540159 93.73538 33.42270  
## 2722 29953 1 0.05559532 95.46223 25.14383  
## 820 3962 1 0.05570958 97.02621 34.98597  
## 101 55624 1 0.05582528 98.65041 29.57114  
## 1792 33015 1 0.05604014 96.61171 33.97652  
## 1229 24032 1 0.05616797 92.03828 32.29371  
## 2451 3208 1 0.05627614 96.22714 35.13861  
## 2229 32126 1 0.05632291 95.89210 27.19818  
## 2118 8776 1 0.05639051 93.97113 31.60416  
## 624 15567 1 0.05659574 95.50031 27.92612  
## 1246 31125 1 0.05665049 95.01453 27.41055  
## 406 18165 1 0.05669725 97.49494 25.52619  
## 2152 56735 1 0.05677554 95.49253 27.99041  
## 326 21508 1 0.05690752 96.17738 35.22942  
## 2634 20110 1 0.05697540 97.36519 30.60042  
## 1302 4842 1 0.05719689 96.98605 26.79584  
## 977 36773 1 0.05722077 98.85186 44.07932  
## 2514 7495 1 0.05741433 95.77295 29.99311  
## 1817 8778 1 0.05751515 92.44391 33.72563  
## 1930 45285 1 0.05756015 90.58355 27.25392  
## 1773 38433 1 0.05781825 97.85090 40.67217  
## 324 54254 1 0.05793519 99.05261 29.84708  
## 1999 9907 1 0.05795681 97.51492 23.86081  
## 839 46887 1 0.05797736 94.65290 27.60876  
## 1316 30912 1 0.05797824 95.76022 34.09962  
## 1934 33984 1 0.05803485 97.71061 33.70052  
## 814 8196 1 0.05803841 97.61223 26.91004  
## 1245 29668 1 0.05808421 96.51141 22.71836  
## 2929 51270 1 0.05822025 99.43253 22.04931  
## 1077 60551 1 0.05822505 99.62314 38.50182  
## 653 7420 1 0.05826352 94.16248 28.21482  
## 1086 6019 1 0.05838599 95.38158 28.96698  
## 2233 34225 1 0.05859868 92.61453 34.75425  
## 1937 49469 1 0.05860649 95.88853 31.30911  
## 970 32246 1 0.05864816 97.15005 33.28156  
## 2408 57415 1 0.05870653 99.27774 43.57104  
## 748 59398 1 0.05897639 97.09872 31.10229  
## 1492 17481 1 0.05901658 94.87937 32.14256  
## 2955 53643 1 0.05910351 96.60366 24.40825  
## 141 55435 1 0.05911213 93.45465 30.20290  
## 1010 60164 1 0.05916992 97.68474 29.83900  
## 2759 33465 1 0.05918536 97.49528 28.28949  
## 870 20066 1 0.05920018 95.97658 26.63601  
## 250 24388 1 0.05922451 96.19923 27.79252  
## 511 42669 1 0.05926614 97.74557 31.08264  
## 2115 32390 1 0.05926635 92.95792 32.20250  
## 1855 16797 1 0.05926853 92.52274 30.03258  
## 2574 13855 1 0.05931764 98.05515 37.56575  
## 2054 14721 1 0.05933147 99.38817 37.96904  
## 1566 39181 1 0.05943875 96.12794 33.47968  
## 2755 32922 1 0.05945333 93.90481 29.18595  
## 115 52096 1 0.05949040 93.19344 33.68221  
## 465 29756 1 0.05955872 95.01897 29.77933  
## 549 6622 1 0.05960590 94.35526 32.63092  
## 1430 24565 1 0.05965086 95.35417 31.30044  
## 2995 57323 1 0.05969469 98.99214 36.10630  
## 2745 31996 1 0.05970976 99.36623 27.14328  
## 2124 25879 1 0.05986428 97.25104 33.40787  
## 3017 58683 1 0.05990080 95.33469 27.69974  
## 1050 22251 1 0.05990798 95.04137 33.56726  
## 1421 17549 1 0.05991356 94.24850 30.29561  
## 2006 56864 1 0.05992998 95.62817 27.36564  
## 1192 23213 1 0.05996885 95.51584 35.93159  
## 2114 10912 1 0.06001975 96.00886 31.96481  
## 410 56410 1 0.06003282 98.42152 35.68591  
## 1530 7263 1 0.06008417 97.45262 25.87817  
## 1290 19093 1 0.06009386 95.06573 27.84326  
## 1293 39097 1 0.06009709 95.15566 28.66675  
## 692 59056 1 0.06010080 96.73955 31.05350  
## 2694 26868 1 0.06013013 92.00715 34.98645  
## 2802 38654 1 0.06014781 97.67023 33.30700  
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## 92 22715 1 0.06016589 98.52415 30.32225  
## 2299 28771 1 0.06017700 97.08848 36.07256  
## 1016 17813 1 0.06020210 96.07626 27.69003  
## 1834 3439 1 0.06020657 92.94736 30.54359  
## 2354 16171 1 0.06023236 95.71294 30.22016  
## 2070 11481 1 0.06023613 99.45342 37.54790  
## 691 50607 1 0.06023946 96.71596 29.46245  
## 2221 32379 1 0.06028008 92.96404 34.31572  
## 1794 28320 1 0.06029622 98.45035 28.88652  
## 700 50056 1 0.06030486 99.11465 30.61151  
## 2954 53587 1 0.06031333 96.09368 33.66544  
## 1896 14650 1 0.06031939 96.56525 27.25566  
## 2494 6125 1 0.06035017 93.00768 24.04671  
## 2632 19891 1 0.06042934 98.66638 33.07209  
## 2713 29069 1 0.06047257 97.98787 36.09646  
## 1125 6054 1 0.06047344 99.16247 32.91831  
## 235 38387 1 0.06051879 99.05583 40.64500  
## 2814 39748 1 0.06058539 98.48272 32.14285  
## 1820 21547 1 0.06059505 97.23315 29.73838  
## 933 53496 1 0.06059552 96.54414 29.35468  
## 1887 38615 1 0.06063739 94.18356 28.70280  
## 2178 13165 1 0.06065490 96.77473 34.93660  
## 572 32261 1 0.06070104 94.74580 27.51348  
## 2410 39182 1 0.06071529 96.01028 36.86217  
## 1030 39110 1 0.06082615 98.88496 37.18804  
## 286 22462 1 0.06089377 98.01038 30.70230  
## 1100 16143 1 0.06094362 98.92767 34.71790  
## 1571 17933 1 0.06094424 93.49937 32.32804  
## 2557 11852 1 0.06095375 98.15273 30.83459  
## 711 18934 1 0.06098283 94.67935 32.96576  
## 483 34148 1 0.06112994 99.30683 45.76453  
## 2730 30393 1 0.06114094 95.82638 27.84764  
## 2657 21819 1 0.06122396 97.51203 32.83815  
## 1345 13003 1 0.06125337 97.42934 24.93527  
## 469 31780 1 0.06129037 96.53662 28.94897  
## 2639 20308 1 0.06131142 99.14835 24.76609  
## 1673 19640 1 0.06147368 92.50760 34.48122  
## 2119 18721 1 0.06147674 92.92421 32.43937  
## 1765 8959 1 0.06148414 99.43105 31.60296  
## 2223 31516 1 0.06158715 96.06223 30.30166  
## 593 5717 1 0.06161110 93.15659 31.45997  
## 2837 42422 1 0.06164204 98.43839 23.46505  
## 2622 18425 1 0.06172448 91.68509 34.73451  
## 2472 4422 1 0.06178565 93.34195 31.83301  
## 299 20847 1 0.06179144 99.04552 27.62621  
## 68 30953 1 0.06180429 97.33027 22.34248  
## 1084 41748 1 0.06187701 97.49380 36.40854  
## 202 29152 1 0.06190237 99.36661 25.84401  
## 2862 44308 1 0.06191088 95.70502 30.48590  
## 2283 43083 1 0.06191420 98.34980 32.69262  
## 1655 26405 1 0.06195469 93.12131 36.27785  
## 1223 10612 1 0.06197917 99.11726 33.47799  
## 1582 33173 1 0.06202447 97.72219 37.40600  
## 810 21352 1 0.06204227 99.01661 36.95756  
## 791 54076 1 0.06217778 95.66267 36.48680  
## 1058 2119 1 0.06218356 98.02513 38.88634  
## 1579 43899 1 0.06221803 94.77667 33.79353  
## 508 43918 1 0.06224303 92.97914 26.06408  
## 1326 40113 1 0.06225894 98.52821 33.20378  
## 1449 16340 1 0.06226451 95.06329 27.40137  
## 518 3320 1 0.06231831 93.76795 34.27108  
## 2388 21883 1 0.06231930 99.77481 30.98119  
## 1472 6861 1 0.06234029 94.74608 31.10413  
## 1811 23743 1 0.06235009 94.22019 24.41518  
## 1973 32466 1 0.06235648 92.23418 31.97647  
## 2138 49424 1 0.06235698 96.13148 31.47466  
## 2863 44386 1 0.06240121 93.55894 27.85464  
## 2624 18615 1 0.06240374 97.80876 31.23716  
## 178 23354 1 0.06240575 92.87466 33.68756  
## 2977 55497 1 0.06240926 98.74448 26.33381  
## 1949 38203 1 0.06243756 94.81577 30.98996  
## 2240 38894 1 0.06248786 95.36617 29.48131  
## 489 60808 1 0.06249346 98.62943 24.65517  
## 174 39918 1 0.06251413 93.24680 31.78348  
## 1415 57868 1 0.06251678 99.58273 35.30651  
## 2743 31865 1 0.06253208 93.09483 26.74987  
## 2839 42543 1 0.06254821 94.51081 31.41973  
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## 1019 42537 1 0.06265313 94.87096 27.73968  
## 1525 23741 1 0.06266161 97.42231 33.44842  
## 858 8289 1 0.06267251 96.82275 29.52840  
## 2927 51198 1 0.06268201 97.12006 27.47307  
## 3035 60309 1 0.06270450 96.96814 26.76622  
## 2996 57349 1 0.06275215 95.56176 29.22348  
## 542 19380 1 0.06275927 94.90263 33.56509  
## 220 31271 1 0.06278074 96.23940 24.43421  
## 1677 14918 1 0.06278895 98.37206 30.49334  
## 2616 17377 1 0.06279088 97.81103 29.74367  
## 660 14237 1 0.06296934 95.21687 30.72672  
## 3039 60482 1 0.06298485 96.91063 25.01066  
## 2317 2919 1 0.06298604 94.65575 30.75295  
## 491 9557 1 0.06299044 96.02745 35.86266  
## 2033 8220 1 0.06299353 98.20492 28.39903  
## 1743 2560 1 0.06302064 96.63318 29.28981  
## 2788 37853 1 0.06304889 97.44754 27.49067  
## 1599 8296 1 0.06310141 98.43060 42.18666  
## 2252 19162 1 0.06311511 98.91051 38.76252  
## 525 27520 1 0.06312815 95.54639 26.35756  
## 998 34209 1 0.06318682 96.30178 30.02527  
## 1193 21673 1 0.06319604 95.96490 25.68659  
## 2586 14921 1 0.06321801 99.46277 24.28048  
## 843 37716 1 0.06324086 99.51271 43.33255  
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## 836 28290 1 0.06325843 95.56260 28.18723  
## 65 49811 1 0.06327713 96.22639 23.77030  
## 3022 58980 1 0.06329819 96.82404 32.10154  
## 759 21075 1 0.06331576 97.83582 31.10149  
## 2938 52254 1 0.06332827 98.71879 37.93574  
## 2296 13450 1 0.06334944 98.43095 38.86436  
## 1895 43303 1 0.06336905 98.88992 42.48713  
## 1295 41965 1 0.06337845 96.21793 28.78319  
## 116 53976 1 0.06338450 96.93716 27.73457  
## 401 47827 1 0.06345072 95.48639 28.76442  
## 1944 47927 1 0.06353835 97.48652 27.69492  
## 1291 29438 1 0.06354896 97.51072 23.31473  
## 314 36746 1 0.06361382 97.68749 32.04642  
## 1447 40764 1 0.06363329 98.50018 27.24744  
## 955 33156 1 0.06364198 96.05328 33.89264  
## 2923 50939 1 0.06371623 97.42975 35.77656  
## 2979 55687 1 0.06372075 99.91282 37.54592  
## 2509 7349 1 0.06378460 95.80185 27.01247  
## 2947 52737 1 0.06381816 94.11590 32.70433  
## 2086 31270 1 0.06382504 97.19974 25.88474  
## 2489 5902 1 0.06384327 97.43677 29.78096  
## 1436 19978 1 0.06385609 97.31068 27.82178  
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## 2663 23021 1 0.06406691 97.36658 34.24070  
## 2799 38444 1 0.06411511 98.13262 32.04694  
## 640 6575 1 0.06433420 95.94178 34.03336  
## 946 24413 1 0.06434548 96.80195 31.10200  
## 132 45327 1 0.06442358 97.49361 29.07768  
## 154 57472 1 0.06448185 100.01288 37.27964  
## 2853 43539 1 0.06449570 98.89050 28.97736  
## 1488 23100 1 0.06458222 99.27025 37.18742  
## 2512 7438 1 0.06468808 99.36591 27.55721  
## 380 60055 1 0.06469739 97.96162 22.57850  
## 1267 54788 1 0.06488685 97.67684 28.64969  
## 1838 38144 1 0.06490221 99.76820 37.25170  
## 2383 41770 1 0.06507767 96.24670 36.82541  
## 1922 24839 1 0.06511993 98.71954 24.04666  
## 2673 24262 1 0.06529947 97.92525 35.45433  
## 349 42311 1 0.06531022 97.64327 23.05977  
## 16 52487 1 0.06562443 99.37482 29.63339  
## 2096 8124 1 0.06563148 99.35886 31.38435  
## 2587 15069 1 0.06573768 97.69611 31.11198  
## 723 30490 1 0.06573770 99.50230 25.85723  
## 2424 379 1 0.06574599 98.58713 36.99456  
## 960 17576 1 0.06577393 98.41721 26.34464  
## 1429 58272 1 0.06577984 97.81001 35.71690  
## 2399 1055 1 0.06581727 98.49940 35.63073  
## 895 47443 1 0.06583824 97.77810 28.86337  
## 2933 51759 1 0.06584535 99.75188 40.99155  
## 37 13805 1 0.06592033 98.11231 26.66942  
## 2952 53442 1 0.06606399 98.52750 29.82551  
## 2881 46633 1 0.06606901 98.19669 29.20729  
## 1049 9178 1 0.06618600 98.06583 25.38195  
## 953 17504 1 0.06620720 97.85225 34.22183  
## 62 19594 1 0.06621921 99.26669 33.49001  
## 857 21123 1 0.06622188 99.54205 29.41201  
## 3032 60078 1 0.06624065 98.42564 31.03386  
## 1556 37013 1 0.06625766 98.39962 32.04605  
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## 2190 11308 1 0.06638272 98.34965 26.31788  
## 822 31956 1 0.06638411 99.78084 38.72892  
## 474 29655 1 0.06638546 99.53848 31.32516  
## 1862 9924 1 0.06639732 97.90298 26.63479  
## 2456 3650 1 0.06647319 98.54718 28.60318  
## 529 7055 1 0.06648586 98.82512 32.40721  
## 2071 32436 1 0.06653614 97.96717 32.13942  
## 2900 49034 1 0.06654066 99.91122 26.04960  
## 2987 56259 1 0.06654273 98.59718 29.36664  
## 308 17391 1 0.06660290 99.52401 35.28844  
## 393 25703 1 0.06662708 98.12733 31.87597  
## 1231 32999 1 0.06664037 98.38622 25.78278  
## 1962 13053 1 0.06664096 98.02552 28.67625  
## 1114 54958 1 0.06665424 97.82412 24.31990  
## 271 27471 1 0.06667575 99.46707 29.96932  
## 732 23850 1 0.06668276 98.21441 26.55787  
## 1292 41087 1 0.06669883 98.34914 27.58817  
## 1399 39447 1 0.06671816 99.03541 28.23313  
## 470 41927 1 0.06672886 98.05601 30.61545  
## 2909 50099 1 0.06673403 99.63195 23.17729  
## 1439 22599 1 0.06674328 98.68549 28.50288  
## 1011 40165 1 0.06678755 98.40122 32.37318  
## 1144 1601 1 0.06679071 98.79324 34.68914  
## 1405 18002 1 0.06679788 98.12274 27.94846  
## 1695 1877 1 0.06681014 98.22894 26.07964  
## 1390 20351 1 0.06684414 98.02190 26.97727  
## 403 31523 1 0.06684593 98.99667 26.19550  
## 1028 29352 1 0.06688000 99.21325 29.01987  
## 315 21151 1 0.06688147 97.62067 30.51246  
## 2337 41291 1 0.06689817 98.27296 32.72640  
## 1921 57680 1 0.06689927 99.75464 42.88432  
## 886 47412 1 0.06692864 99.11592 28.03823  
## 254 51474 1 0.06694115 99.08011 25.95904  
## 1226 19435 1 0.06697680 99.07133 32.93216  
## 2180 48773 1 0.06697696 99.60665 25.07090  
## 599 4840 1 0.06698716 98.17831 34.83144  
## 1281 8060 1 0.06700743 98.99947 26.96850  
## 1957 568 1 0.06702890 99.43974 33.67995  
## 1540 20951 1 0.06703331 98.63699 26.15043  
## 2677 24678 1 0.06704271 98.95826 32.04455  
## 1458 17616 1 0.06705430 98.35751 35.47865  
## 881 8656 1 0.06711325 99.32722 26.94736  
## 1952 26591 1 0.06714570 98.50607 29.90339  
## 1766 6977 1 0.06714856 99.53696 30.35812  
## 743 23206 1 0.06715186 98.94328 34.50236  
## 166 86 1 0.06715860 99.26791 34.59035  
## 2851 43514 1 0.06718360 99.23025 30.29783  
## 2012 51386 1 0.06719183 99.36021 30.89504  
## 355 7347 1 0.06719856 98.09185 24.08960  
## 409 448 1 0.06723397 99.51482 24.31204  
## 609 52554 1 0.06727210 97.86208 32.20225  
## 2711 28856 1 0.06727653 98.86172 30.33025  
## 2964 54366 1 0.06732400 98.40184 27.00819  
## 1476 27142 1 0.06735129 99.46162 27.97709  
## 38 19623 1 0.06737173 98.89214 28.92674  
## 1092 13874 1 0.06743712 98.85831 31.24827  
## 2765 34426 1 0.06743851 99.59711 27.35884  
## 1126 53329 1 0.06745256 99.01827 30.98339  
## 64 57191 1 0.06746284 98.80504 34.02971  
## 3028 59612 1 0.06748636 99.04372 29.56403  
## 2222 20638 1 0.06751330 99.09870 29.61280  
## 2189 31399 1 0.06753264 98.86155 29.25434  
## 1493 15909 1 0.06759607 98.57101 24.56248  
## 2884 47114 1 0.06764950 99.06747 33.50348  
## 2289 21670 1 0.06766833 98.36770 36.71208  
## 1004 32127 1 0.06768964 100.01047 20.84404  
## 2791 37963 1 0.06781633 98.40086 22.73570  
## 1383 36280 1 0.06788475 98.70735 36.41582  
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## 954 24506 1 0.22102693 108.47081 27.90780  
## 1840 23642 1 0.22105427 107.26510 31.13116  
## 2480 5335 1 0.22107208 106.34214 26.32617  
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## 1901 40675 1 0.22108702 105.92256 35.41613  
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## 2812 39349 1 0.22183036 112.03564 32.99596  
## 1734 54436 1 0.22184054 110.82985 24.03594  
## 1865 45813 1 0.22188378 110.17361 24.45101  
## 1045 25645 1 0.22190581 110.13873 24.79204  
## 2792 38040 1 0.22190728 116.36332 32.02301  
## 902 44878 1 0.22192829 110.54923 23.70504  
## 2732 30545 1 0.22193386 109.18838 24.83167  
## 1007 12296 1 0.22196045 109.37827 28.97978  
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## 2369 51286 1 0.22200904 107.42475 30.26802  
## 3015 58587 1 0.22202574 109.59254 34.12945  
## 547 19963 1 0.22204186 113.33972 26.31147  
## 2282 47589 1 0.22211854 106.20968 28.82398  
## 2595 16256 1 0.22218044 106.14005 25.00979  
## 385 56740 1 0.22218774 108.99572 23.57405  
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## 2924 51035 1 0.22243323 107.22697 23.95210  
## 1474 21092 1 0.22245059 107.81895 35.15151  
## 1490 39473 1 0.22250725 106.82890 34.99356  
## 2157 1806 1 0.22252709 106.90818 30.05828  
## 493 73 1 0.22255682 106.41589 34.26244  
## 2523 8150 1 0.22261881 107.10958 34.14663  
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## 2959 53963 1 0.22269239 106.39856 27.75858  
## 1591 1594 1 0.22273320 107.94894 23.92400  
## 2961 54054 1 0.22276627 113.33758 28.72371  
## 553 10568 1 0.22278283 107.58654 29.35731  
## 2205 33800 1 0.22284201 106.26702 25.13891  
## 1619 59382 1 0.22315429 111.87503 22.85849  
## 461 12050 1 0.22324964 106.97306 32.55258  
## 1614 45568 1 0.22331415 106.20354 26.43291  
## 1634 17292 1 0.22363665 107.52645 28.46304  
## 1098 15388 1 0.23227481 102.99964 29.34323

Most\_Likely\_HR <- filter(HR\_Full, HOME\_RUN\_YES\_OR\_NO == 0)  
Most\_Likely\_HR <- as.data.frame(Most\_Likely\_HR[order(Most\_Likely\_HR$HR\_Pred),])  
Most\_Likely\_HR

## X HOME\_RUN\_YES\_OR\_NO HR\_Pred EXIT\_VELOCITY LAUNCH\_ANGLE  
## 52308 30146 0 0.004661635 59.646427 -36.207118990  
## 19395 37340 0 0.004661653 48.085022 -37.304553990  
## 30172 18636 0 0.004670514 53.307358 -45.511993410  
## 52341 30297 0 0.004674116 53.952690 -52.282146450  
## 7554 3890 0 0.004684574 63.565403 -47.204738620  
## 36753 20908 0 0.004684989 80.390312 -30.939775470  
## 5833 20633 0 0.004696278 72.481819 -58.910007480  
## 24206 1646 0 0.004700817 40.600639 -33.912635800  
## 42308 39852 0 0.004722426 68.827393 -38.105297090  
## 1645 52452 0 0.004733897 75.240707 -58.831581120  
## 21511 28565 0 0.004737810 40.212196 -73.039764400  
## 53567 36942 0 0.004788385 70.554459 -29.899488450  
## 42815 1346 0 0.004789447 78.025772 -11.157103540  
## 51446 25627 0 0.004790697 46.500702 -59.508293150  
## 4591 56773 0 0.004813189 74.925438 -47.016433720  
## 45216 3491 0 0.004833087 59.268257 8.845818520  
## 44796 43111 0 0.004849412 69.345802 -23.260417940  
## 14694 28637 0 0.004867332 89.509491 -12.876588820  
## 39640 52968 0 0.004869347 71.022774 -12.682198520  
## 15619 59079 0 0.004873273 59.072113 -65.563446040  
## 20441 38449 0 0.004886319 41.734882 -15.273029330  
## 8093 33914 0 0.004925535 52.395042 -54.220428470  
## 30661 27938 0 0.004929095 74.397003 -25.257474900  
## 13469 15019 0 0.004944496 26.200985 -71.172538760  
## 7135 44249 0 0.004954941 54.032402 -25.392770770  
## 6377 7926 0 0.004961838 44.483933 -87.593605040  
## 10848 15236 0 0.004963360 75.890320 -15.255094530  
## 3801 2583 0 0.004963882 86.278915 -51.403877260  
## 52002 28601 0 0.004966311 38.312542 -29.449766160  
## 13846 43820 0 0.004982452 65.318481 -40.605010990  
## 23665 58604 0 0.004986715 69.170509 -30.445936200  
## 53514 36653 0 0.005006444 68.295479 -43.607940670  
## 31302 2151 0 0.005008489 68.959053 -46.835773470  
## 33356 52152 0 0.005010806 70.120560 3.896107674  
## 18942 57296 0 0.005013528 54.007854 -37.040348050  
## 11152 44336 0 0.005016749 54.191174 -54.492843630  
## 57873 59680 0 0.005030318 69.608704 -14.327304840  
## 36360 61254 0 0.005040255 72.202934 -16.531986240  
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## 20959 13558 0 0.005113785 90.749519 -28.029430390  
## 10645 31868 0 0.005114213 77.418953 -31.730665210  
## 47417 4290 0 0.005116051 70.843933 -45.123592380  
## 38706 48632 0 0.005122212 65.257614 -12.694551470  
## 21586 19163 0 0.005127337 52.904312 -71.952522280  
## 57142 56046 0 0.005128921 47.036453 -53.841068270  
## 56365 51658 0 0.005136382 46.768608 -64.325561520  
## 19683 51966 0 0.005143298 74.524895 -8.024193764  
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## 31556 10523 0 0.017040832 65.571335 12.531266210  
## 19044 41765 0 0.017041091 87.368500 7.141463280  
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