

final_project

R Markdown

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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:

```
data = read.table("player_time.csv"
                  ,header=TRUE
                  , row.names=NULL
                  ,sep = ","
                  ,fill = TRUE)
dataMatch = read.table("match.csv"
                       ,header=TRUE
                       , row.names=NULL
                       ,sep = ","
                       ,fill = TRUE)

#Create dataframes
df <- data.frame(data)
dfMatch <- data.frame(dataMatch)

#Remove all 0 rows at match start
df <- df[!(df$times == 0),]
#Remove different gamemodes
dfMatch<- dfMatch[(dfMatch$game_mode == 22),]
dfMatch <- dfMatch[,!(colnames(dfMatch) %in% c("negative_votes","positive_votes","cluster"))]

#Sum of teams Gold
RadiantGold <- df$gold_t_0 + df$gold_t_1 + df$gold_t_2 + df$gold_t_3 + df$gold_t_4
df$RadiantGold <- RadiantGold

RadiantGoldSD <-apply(df[,c("gold_t_0","gold_t_1","gold_t_2","gold_t_3","gold_t_4")],1,sd)
df$RadiantGoldSD <- RadiantGoldSD

RadiantGoldMAD <-apply(df[,c("gold_t_0","gold_t_1","gold_t_2","gold_t_3","gold_t_4")],1,mad)
df$RadiantGoldMAD <- RadiantGoldMAD

DireGold <- df$gold_t_128 + df$gold_t_129 + df$gold_t_130 + df$gold_t_131 + df$gold_t_132
df$DireGold <- DireGold

#Sum of teams XP
RadiantXp <- df$xp_t_0 + df$xp_t_1 + df$xp_t_2 + df$xp_t_3 + df$xp_t_4
df$RadiantXp <- RadiantXp

RadiantXpSD <-apply(df[,c("xp_t_0","xp_t_1","xp_t_2","xp_t_3","xp_t_4")],1,sd)
df$RadiantXpSD <- RadiantXpSD

RadiantXpMAD <-apply(df[,c("xp_t_0","xp_t_1","xp_t_2","xp_t_3","xp_t_4")],1,mad)
df$RadiantXpMAD <- RadiantXpMAD
```

```

DireXp <- df$xp_t_128 + df$xp_t_129 + df$xp_t_130 + df$xp_t_131 + df$xp_t_132
df$DireXp <- DireXp

#Team Advantages
df$RadiantGoldAdv <- df$RadiantGold - df$DireGold
df$DireGoldAdv <- df$DireGold - df$RadiantGold

df$RadiantXpAdv <- df$RadiantXp - df$DireXp
df$DireXpAdv <- df$DireXp - df$RadiantXp

#Merge match results with match flow
matchSoT <- merge(df,dfMatch, by = "match_id")
matchSoT$radiant_win <- matchSoT$radiant_win == "True"
matchSoT$dire_win <- !matchSoT$radiant_win

#Get match status @15minutes to predict Win%
match15 <- matchSoT[(matchSoT$times == 900),]

#Use Advantages
match15Adv <- match15[,c("match_id", "RadiantXpAdv", "RadiantGoldAdv", "RadiantGoldSD", "RadiantGoldMAD")]

#Use Advantages
matchEvery5 <- matchSoT[(matchSoT$times%%900==0),]
matchTableau <- matchEvery5[,c("match_id", "times", "RadiantXpAdv", "RadiantGoldAdv", "radiant_win")]

#library(ggplot2)
#ggplot(data = dat$game_mode, mapping = aes(x = value)) +
# geom_histogram(bins = 10) + facet_wrap(~variable, scales = 'free_x')

#Predicting

```

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.

```

## Observations: 48,591
## Variables: 7
## $ RadiantXpAdv <int> 1238, -1224, 1470, 2822, 5261, 5683, 5274, 7572...
## $ RadiantGoldAdv <int> 707, -193, 1035, 2464, 6967, 5311, 1409, 7476, ...
## $ RadiantGoldSD <dbl> 1448.1475, 1779.8793, 1110.6335, 1023.3632, 196...
## $ RadiantGoldMAD <dbl> 690.8916, 2014.8534, 598.9704, 1146.0498, 2283...
## $ RadiantXpSD <dbl> 1761.8006, 2318.0925, 1094.7780, 963.0772, 2003...
## $ RadiantXpMAD <dbl> 1925.8974, 2892.5526, 1438.1220, 1254.2796, 311...
## $ radiant_win <lgl> TRUE, FALSE, FALSE, FALSE, TRUE, TRUE, TRUE, TR...

##      [1] 1 0 0 0 1 1 1 1 0 0 1 0 0 1 1 0 0 1 0 1 1 1 1 1 0 1 1 0 1 0 1 0 1 0
##     [35] 1 0 1 1 0 0 0 1 1 0 1 1 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 1 1 0 1 1 1 1
##     [69] 1 1 1 0 1 0 1 0 1 1 0 1 1 1 0 0 1 1 1 1 1 0 0 0 0 0 0 0 1 1 0 1 0 0
##    [103] 1 1 0 1 1 0 0 1 0 0 1 0 0 1 0 1 0 0 0 1 0 0 0 0 0 1 1 0 0 1 0 1 1 0

```

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## [45527] 1 1 0 0 1 1 1 1 0 0 1 0 1 0 1 0 0 1 0 1 0 1 1 1 0 1 1 1 1 0 1 1 1 0
## [45561] 0 0 0 1 1 0 1 0 1 0 0 0 0 0 1 1 0 1 1 1 1 1 1 0 0 1 0 0 1 1 0 1 1 0
## [45595] 0 1 1 0 0 0 0 1 0 1 1 1 1 0 0 0 1 1 0 1 1 1 1 1 0 1 0 1 0 1 1 0 1 1
## [45629] 0 0 0 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 0 1 0 0 1 1 1 1 1 0 0 0 1 0 1 0 0
## [45663] 1 1 1 0 1 0 1 0 1 1 1 1 0 1 0 1 0 0 1 0 1 0 1 1 0 0 1 1 0 0 1 1 1 1
## [45697] 1 1 0 1 0 1 0 1 1 1 0 0 0 1 0 1 0 1 1 0 1 1 1 1 0 0 0 1 1 0 0 1 0 1
## [45731] 0 0 1 0 0 0 0 0 1 0 0 1 1 1 0 1 1 1 0 1 0 1 1 1 0 1 0 1 0 1 1 1 0 1
## [45765] 0 1 0 0 1 1 1 1 0 0 0 0 0 1 0 0 1 1 1 1 1 1 0 0 1 0 1 0 1 1 0 1 1 0
## [45799] 0 0 0 1 0 1 1 0 1 1 1 0 1 0 0 0 1 0 1 1 1 1 0 1 0 0 1 1 1 0 0 1 1 1
## [45833] 1 0 0 1 1 1 0 0 1 1 0 1 1 0 1 0 0 1 1 1 0 1 0 0 0 1 1 1 0 0 1 1 0 0
## [45867] 0 0 1 1 1 0 0 0 0 0 1 1 1 0 1 0 1 1 0 0 1 1 1 0 1 1 1 0 0 0 1 1 1 1
## [45901] 0 1 1 1 0 0 1 1 1 0 0 1 1 0 0 0 1 0 1 0 1 1 0 0 1 1 1 1 1 0 1 1 1 1
## [45935] 1 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 1 0 1 0 0 1 1 0 0 1 0 1 0 1
## [45969] 1 0 0 0 1 1 0 0 1 0 1 0 0 1 0 1 0 1 1 1 0 1 0 1 1 0 1 1 1 1 1 0 0 1
## [46003] 0 0 0 1 1 1 0 1 1 1 1 1 0 0 0 1 1 0 1 1 0 1 1 1 1 0 1 1 1 0 1 0 0 0

```

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## [46037] 0 1 0 1 1 1 1 0 1 1 1 0 0 1 1 1 1 0 0 1 0 0 1 0 0 0 0 1 1 0 0 1 0 0
## [46071] 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 0 1 0 0 0 0 0 0 0 1 1 1 1 1 0 1 1 0
## [46105] 0 0 1 0 0 1 0 1 1 0 1 0 0 0 1 0 1 0 0 0 1 0 0 0 1 1 0 0 1 1 1 0 0 0
## [46139] 1 1 0 0 0 1 0 0 0 1 0 1 0 1 1 1 0 1 1 0 0 1 1 1 1 1 1 1 1 1 0 0 1 1 1
## [46173] 0 1 1 0 1 0 0 1 0 1 1 1 1 0 0 1 0 1 1 0 1 1 0 0 1 0 0 1 1 0 1 1 1 1 0
## [46207] 0 1 0 0 0 1 0 1 1 1 0 1 1 1 0 1 1 0 0 1 0 1 0 0 1 1 0 1 1 0 0 1 0 1
## [46241] 0 1 0 0 1 0 1 0 1 1 1 0 1 1 0 1 0 1 0 1 0 1 1 1 0 1 1 0 0 1 1 0 0 1 0 1
## [46275] 0 1 0 1 1 1 1 0 0 0 0 0 0 0 1 1 0 1 1 1 1 1 1 1 0 0 0 1 1 1 0 0 0 1 1 0
## [46309] 0 1 0 0 1 0 0 0 1 1 1 0 1 1 0 0 0 1 0 1 0 0 0 1 0 0 0 0 0 1 1 0 1 1
## [46343] 1 1 0 1 0 0 1 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 1 1 1 0 1 0 0 1 1 1 0 0
## [46377] 1 0 1 1 1 1 1 1 0 1 0 1 1 0 0 1 0 0 1 1 0 0 0 0 0 0 1 1 1 1 1 1 0 0
## [46411] 0 0 0 0 1 1 1 1 1 1 0 1 0 1 0 1 0 0 0 0 0 1 1 0 1 1 1 1 0 1 0 1 1 0 0 1
## [46445] 1 0 0 1 0 1 1 0 0 0 1 0 1 1 0 1 1 1 0 1 1 1 1 0 0 1 0 0 1 1 0 1 0 1
## [46479] 0 1 1 0 0 0 1 1 1 0 1 0 0 0 1 1 1 0 0 0 0 1 0 1 1 1 1 0 1 0 0 0 1 0
## [46513] 1 0 0 1 0 1 1 1 0 1 0 0 1 1 1 0 1 0 0 1 0 1 1 0 0 1 0 1 1 1 1 1 1 0
## [46547] 0 1 1 0 0 1 1 1 1 0 1 1 0 0 1 1 0 1 1 1 1 1 0 1 0 0 0 0 1 1 1 1 0 1
## [46581] 1 1 0 0 0 1 1 0 0 0 0 1 1 1 0 0 0 0 1 0 0 0 0 0 0 1 0 1 0 0 1 1 0 0
## [46615] 1 1 0 0 0 1 1 1 1 0 0 0 1 1 0 0 1 0 0 1 1 0 1 0 1 1 0 0 1 0 1 0 1 0
## [46649] 1 0 0 1 0 0 0 0 1 0 0 0 0 1 1 1 1 1 1 1 0 1 0 0 1 0 1 0 0 1 1 1 1 0
## [46683] 0 1 0 1 1 0 0 1 1 0 1 0 1 1 0 1 1 1 0 0 0 0 1 1 1 0 1 1 1 0 0 0 1 1
## [46717] 1 0 0 0 1 1 1 1 0 1 0 1 1 0 1 1 1 0 0 1 0 1 1 0 0 1 1 1 1 0 0 0 1 0
## [46751] 1 0 1 0 0 0 1 0 0 1 0 1 0 0 0 1 0 0 0 0 1 1 0 1 1 1 0 1 1 0 0 0 0 0
## [46785] 1 0 0 0 1 1 1 1 1 1 1 0 0 0 1 0 1 1 0 1 0 1 0 1 0 0 1 0 0 0 0 1 1 0
## [46819] 1 0 0 0 1 1 1 1 0 0 1 0 0 1 0 0 0 1 0 1 0 1 1 1 0 1 0 0 1 0 0 1 1 0
## [46853] 1 1 1 0 1 0 1 1 0 1 1 1 0 1 1 1 1 1 1 1 0 1 1 0 1 1 0 0 0 1 1 1 0 1
## [46887] 0 0 1 1 0 1 1 1 1 1 0 0 0 1 1 1 0 1 0 0 1 1 1 1 1 1 0 1 1 0 1 1 1 1
## [46921] 1 1 1 1 0 0 1 0 0 0 1 1 1 1 1 0 0 1 1 1 0 1 0 1 0 0 0 1 1 0 0 0 0 0
## [46955] 1 0 0 1 1 1 0 1 0 1 0 1 0 0 0 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 0
## [46989] 1 1 1 0 0 1 1 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 0 1 1 1 1 0 1 1 1 1 0 0
## [47023] 0 1 0 1 0 0 0 1 0 1 0 1 0 0 0 0 0 1 1 0 1 1 0 0 0 1 0 0 0 0 1 0 1 1
## [47057] 0 1 0 1 1 1 1 0 1 1 0 0 0 1 0 0 1 1 0 1 0 0 0 1 1 1 0 1 0 1 0 0 0 0
## [47091] 0 0 0 0 0 0 0 0 0 1 0 1 1 0 1 1 1 0 1 0 0 1 0 1 1 1 0 1 0 0 1 0 1 0 0
## [47125] 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 1 1 1 0 0 1 1 0 1 0 1 0 1 0 1 0 0 0 1
## [47159] 1 0 1 1 0 0 1 1 1 0 1 1 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 1 0 1 0 1 0 0
## [47193] 1 0 1 1 0 0 0 1 0 1 0 1 1 0 1 1 1 1 0 0 1 1 0 1 0 0 1 0 0 0 1 1 1 1
## [47227] 1 1 0 0 1 0 1 1 0 1 0 1 1 1 0 1 1 1 0 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1
## [47261] 0 0 1 1 1 0 1 0 1 0 1 0 0 0 1 1 1 0 1 1 0 0 0 1 1 1 0 1 0 1 1 1 0 1
## [47295] 1 1 1 1 0 0 1 1 0 1 0 0 1 1 0 1 1 1 1 1 0 0 1 0 1 0 0 1 1 1 0 0 1 0
## [47329] 0 1 1 1 1 1 0 0 1 0 1 0 0 1 1 0 1 1 1 0 1 0 1 0 0 1 0 0 0 0 1 1 1 0
## [47363] 1 0 1 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 1 1 0 0 0 1 0 1 0 1 1 1 1 1 1 0 0
## [47397] 0 0 1 1 0 0 0 0 1 1 1 0 1 0 1 1 0 0 0 1 0 1 0 1 1 1 1 1 1 0 1 0 1 1
## [47431] 1 1 0 1 0 1 1 0 0 0 0 0 1 1 1 1 1 1 1 0 1 1 0 0 1 0 1 1 0 1 0 1 1 1
## [47465] 0 1 0 0 1 1 1 1 1 0 1 1 1 0 0 1 1 1 1 1 1 0 1 0 1 1 0 1 1 1 0 1 1 0
## [47499] 0 0 0 1 0 0 1 1 1 0 1 1 1 1 0 0 0 1 1 1 0 0 0 1 0 0 1 1 1 0 1 0 0 0
## [47533] 0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 1 0 0 1 1 1 0
## [47567] 0 0 1 0 0 1 0 0 0 0 1 1 0 0 0 1 1 1 0 0 0 0 1 1 1 0 1 1 0 1 1 1 1 1
## [47601] 0 1 1 0 1 0 1 0 0 1 0 0 1 1 0 1 0 0 0 0 0 1 0 1 0 0 0 0 1 0 1 1 0 1
## [47635] 0 1 1 1 0 1 0 0 1 1 0 0 1 1 0 1 0 1 1 1 1 0 1 1 0 1 0 0 1 1 1 0 0 0
## [47669] 1 0 1 1 1 1 1 0 1 0 0 1 0 1 0 0 0 0 1 1 1 0 0 1 0 0 1 0 0 0 0 1 1 1
## [47703] 0 1 1 0 0 1 1 1 0 0 1 0 0 1 0 0 1 0 1 1 1 1 1 1 0 1 0 0 0 1 1 1 1 0
## [47737] 1 0 0 0 1 1 0 1 1 1 0 0 0 1 0 1 1 0 1 0 1 0 1 1 1 0 1 0 0 0 1 1 0 1
## [47771] 0 1 0 1 1 1 0 0 0 1 1 1 0 0 0 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1
## [47805] 1 1 0 1 1 0 1 0 0 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 0 0 1 1 0
## [47839] 1 1 1 1 1 0 0 0 1 1 1 0 1 0 1 0 1 1 1 1 0 0 1 1 1 0 1 1 1 0 0 1 1 0

```

```

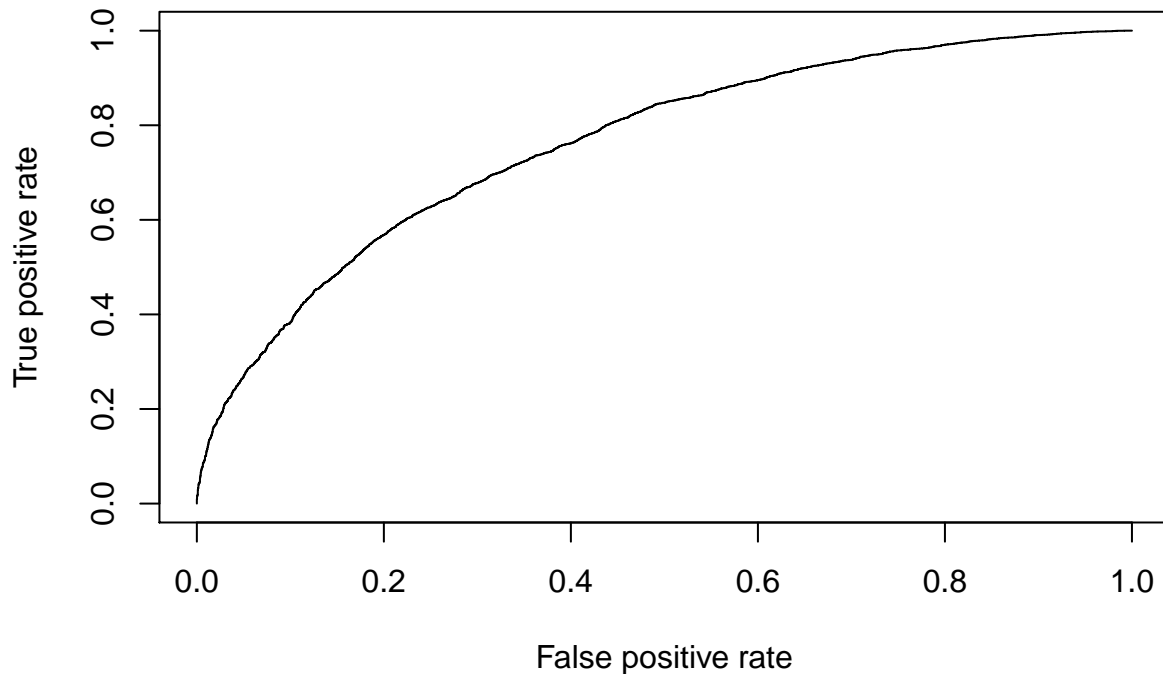
## [47873] 1 0 1 1 1 0 1 0 1 1 1 0 0 1 0 1 1 0 1 0 1 0 1 0 0 1 0 1 1 1 1 0 1 1
## [47907] 0 1 0 0 1 1 0 1 1 1 1 1 1 1 0 1 1 1 1 0 0 0 0 1 0 0 1 0 1 1 0 1 1 1
## [47941] 1 0 0 1 1 0 1 0 0 0 0 1 1 0 0 1 1 0 0 1 0 1 0 0 1 1 0 0 0 0 0 1 1 0
## [47975] 0 1 1 0 1 0 1 1 0 1 1 0 1 0 1 0 0 1 0 0 1 0 1 1 1 1 0 0 1 1 0 0 0 1
## [48009] 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 0 1 1 0 0 0 1 1 0 1 1 0 0 0 1 0 1 0 1
## [48043] 0 0 1 1 1 1 1 0 1 1 1 0 1 1 1 1 1 1 1 0 0 1 0 0 1 1 1 0 0 1 1 1 0 0
## [48077] 0 1 0 1 1 0 1 0 0 0 1 1 1 0 0 1 1 0 1 1 1 1 0 1 0 1 0 0 1 0 0 0 1 0 1 1
## [48111] 1 0 0 1 1 1 1 0 1 1 1 1 1 1 1 0 0 0 1 1 1 1 1 1 0 0 1 0 1 0 0 1 0 0 1
## [48145] 1 0 0 1 0 0 1 0 1 0 0 1 0 1 1 1 1 0 0 0 0 1 0 0 1 1 0 1 1 0 1 1 1 1 0
## [48179] 0 1 1 1 0 1 1 0 1 1 1 0 1 0 0 1 0 0 1 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 1 1
## [48213] 1 0 1 0 1 0 1 0 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1 0 1 1 1 1 1 1 1 1 0 0
## [48247] 0 1 1 1 1 0 1 1 1 0 1 1 0 1 1 0 1 0 0 1 1 0 1 1 1 1 1 1 0 0 1 1 0 0 1
## [48281] 1 1 1 1 0 1 0 0 1 0 0 1 1 0 1 0 0 0 1 0 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 0
## [48315] 0 0 1 0 0 1 1 0 0 1 0 0 0 1 0 0 0 0 1 1 1 1 0 0 1 0 1 1 1 0 1 1 0 0
## [48349] 0 0 0 0 1 1 1 1 0 0 1 1 0 1 1 0 0 0 1 1 1 0 1 1 0 1 1 0 0 0 1 1 0 0
## [48383] 1 1 1 1 1 0 0 1 1 0 1 1 0 0 1 0 1 1 1 0 0 1 1 0 1 0 0 1 0 1 1 0 1 1
## [48417] 0 1 1 0 0 0 1 0 0 0 0 1 0 1 0 0 0 0 1 1 0 1 0 0 0 0 1 1 1 0 0 0 1 1
## [48451] 1 1 0 1 1 0 0 1 0 0 1 1 0 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 1 0 1 1 0 0
## [48485] 0 0 1 0 1 0 1 1 0 1 1 1 0 1 1 1 0 0 1 0 1 1 0 0 0 0 1 0 0 0 0 0 1 1
## [48519] 0 1 0 0 0 1 1 0 0 1 1 1 0 0 0 0 1 1 1 0 0 1 1 1 0 1 0 0 0 1 1 0 1 0
## [48553] 0 0 1 0 1 1 1 1 1 1 1 1 1 0 0 0 1 1 0 1 0 0 1 1 0 1 1 0 0 1 1 0 0 0
## [48587] 1 1 1 1 0

```

```

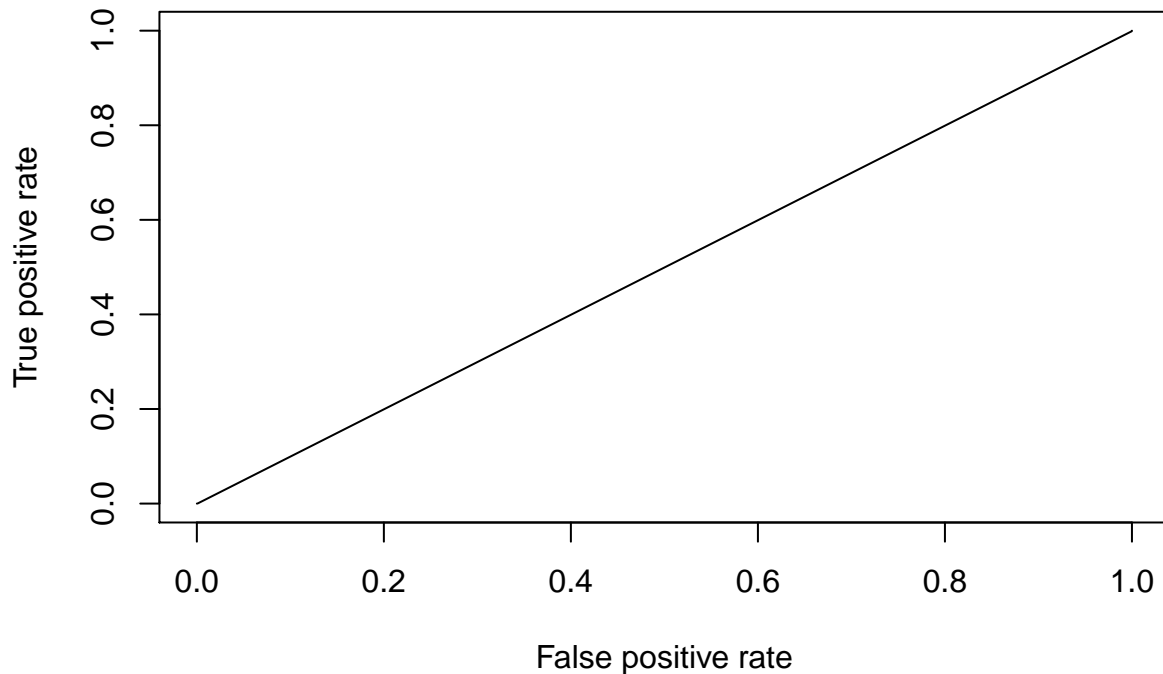
## my dataset: 10000 observations 6 predictors
## label (y) distribution:
##      0      1
## 4817 5183
## pre-test lr : #training: 6000 #testing 4000
## error rate: 0.3075
## 10 -fold CV run 1 lr : #training: 9000 #testing 1000
##      error= 0.309
## 10 -fold CV run 2 lr : #training: 9000 #testing 1000
##      error= 0.317
## 10 -fold CV run 3 lr : #training: 9000 #testing 1000
##      error= 0.302
## 10 -fold CV run 4 lr : #training: 9000 #testing 1000
##      error= 0.303
## 10 -fold CV run 5 lr : #training: 9000 #testing 1000
##      error= 0.3
## 10 -fold CV run 6 lr : #training: 9000 #testing 1000
##      error= 0.32
## 10 -fold CV run 7 lr : #training: 9000 #testing 1000
##      error= 0.31
## 10 -fold CV run 8 lr : #training: 9000 #testing 1000
##      error= 0.318
## 10 -fold CV run 9 lr : #training: 9000 #testing 1000
##      error= 0.328
## 10 -fold CV run 10 lr : #training: 9000 #testing 1000
##      error= 0.305
## 10 -fold CV results: avg error= 0.3112

```



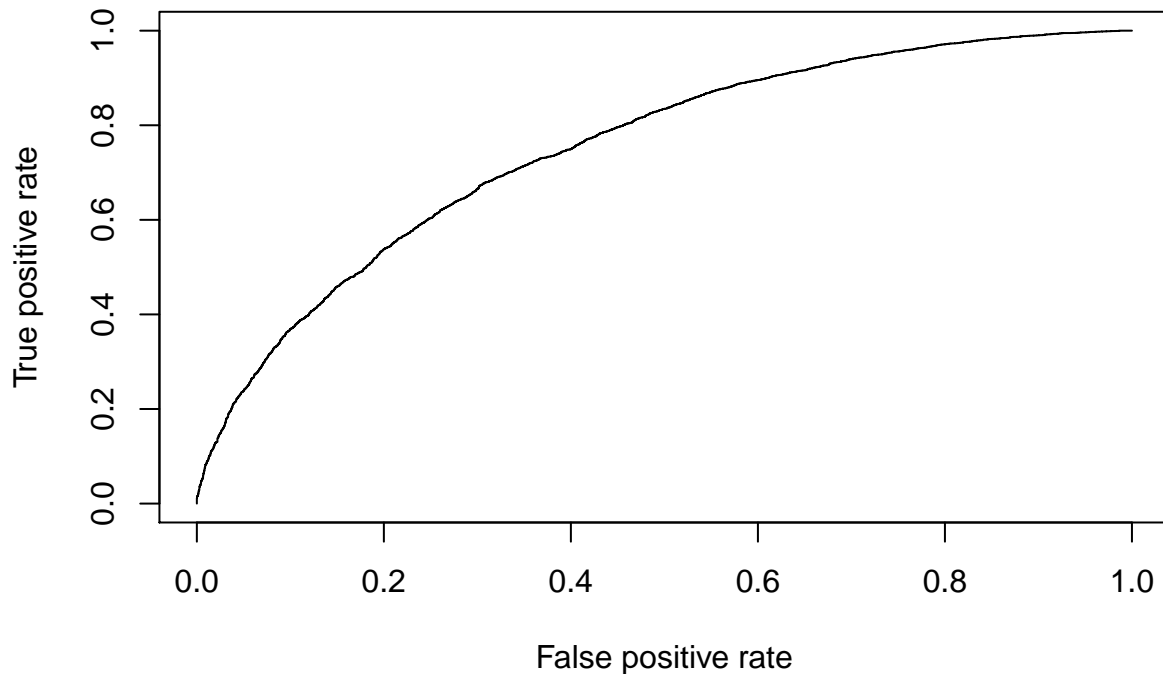
```
## error= 0.3691905 precision= 0.7182231 recall= 0.6261909 f-score 0.5945172
## auc= 0.7619961
```

```
## my dataset: 10000 observations 6 predictors
## label (y) distribution:
##   0   1
## 4817 5183
## pre-test knn : #training: 6000 #testing 4000
## error rate: 0.5235
## 10 -fold CV run 1 knn : #training: 9000 #testing 1000
##   error= 0.506
## 10 -fold CV run 2 knn : #training: 9000 #testing 1000
##   error= 0.513
## 10 -fold CV run 3 knn : #training: 9000 #testing 1000
##   error= 0.541
## 10 -fold CV run 4 knn : #training: 9000 #testing 1000
##   error= 0.522
## 10 -fold CV run 5 knn : #training: 9000 #testing 1000
##   error= 0.514
## 10 -fold CV run 6 knn : #training: 9000 #testing 1000
##   error= 0.526
## 10 -fold CV run 7 knn : #training: 9000 #testing 1000
##   error= 0.549
## 10 -fold CV run 8 knn : #training: 9000 #testing 1000
##   error= 0.491
## 10 -fold CV run 9 knn : #training: 9000 #testing 1000
##   error= 0.532
## 10 -fold CV run 10 knn : #training: 9000 #testing 1000
##   error= 0.492
## 10 -fold CV results: avg error= 0.5186
```



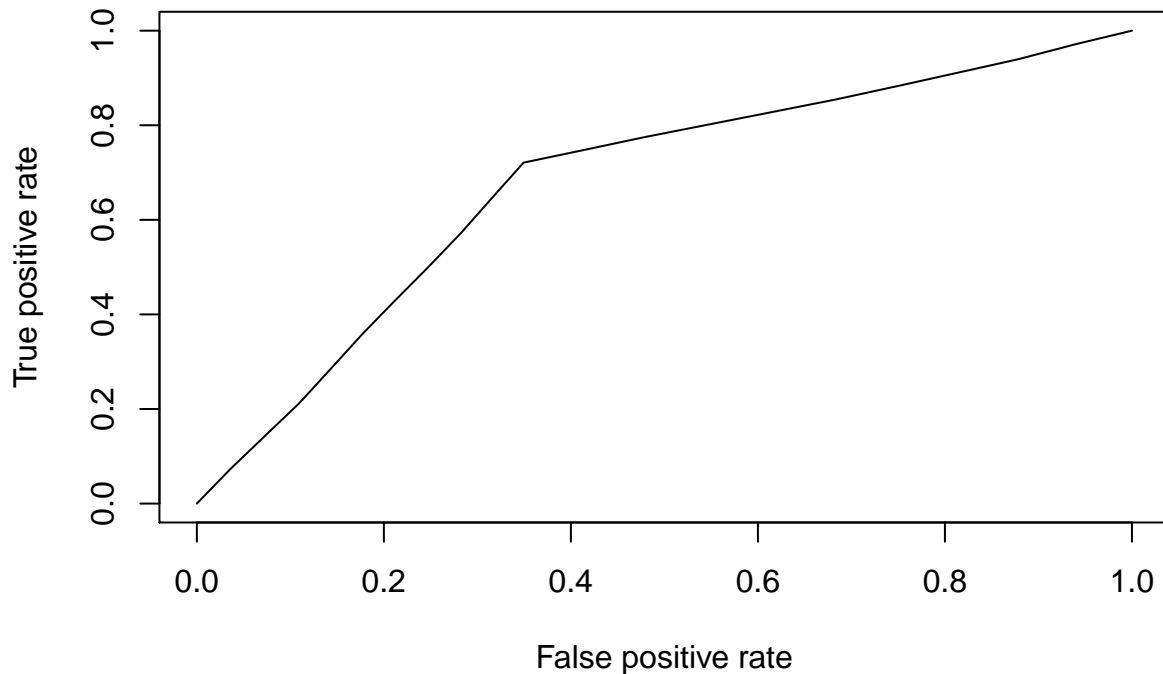
```
## error= 0.5002 precision= 0.4406923 recall= 0.4998071 f-score 0.4552565
## auc= 0.4991995
```

```
## my dataset: 10000 observations 6 predictors
## label (y) distribution:
##   0   1
## 4817 5183
## pre-test nb : #training: 6000 #testing 4000
## error rate: 0.312
## 10 -fold CV run 1 nb : #training: 9000 #testing 1000
##   error= 0.304
## 10 -fold CV run 2 nb : #training: 9000 #testing 1000
##   error= 0.341
## 10 -fold CV run 3 nb : #training: 9000 #testing 1000
##   error= 0.314
## 10 -fold CV run 4 nb : #training: 9000 #testing 1000
##   error= 0.322
## 10 -fold CV run 5 nb : #training: 9000 #testing 1000
##   error= 0.302
## 10 -fold CV run 6 nb : #training: 9000 #testing 1000
##   error= 0.308
## 10 -fold CV run 7 nb : #training: 9000 #testing 1000
##   error= 0.358
## 10 -fold CV run 8 nb : #training: 9000 #testing 1000
##   error= 0.307
## 10 -fold CV run 9 nb : #training: 9000 #testing 1000
##   error= 0.296
## 10 -fold CV run 10 nb : #training: 9000 #testing 1000
##   error= 0.306
## 10 -fold CV results: avg error= 0.3158
```



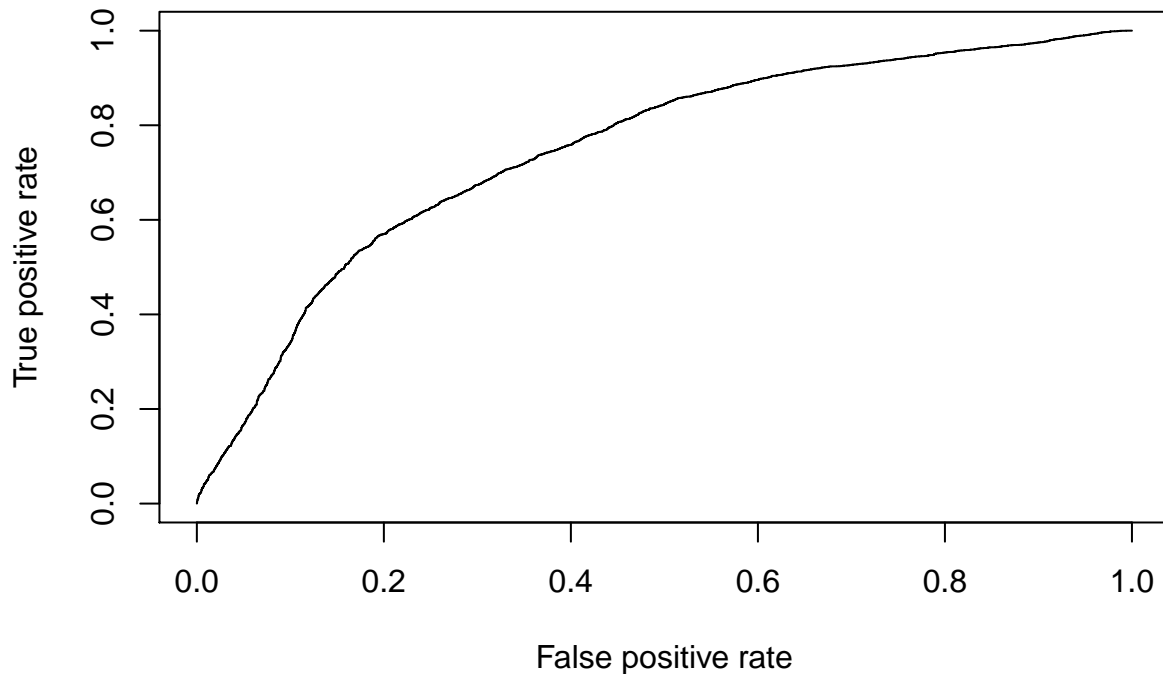
```
## error= 0.3747852 precision= 0.7067642 recall= 0.6207937 f-score 0.5879847
## auc= 0.7507905
```

```
## my dataset: 10000 observations 6 predictors
## label (y) distribution:
##   0   1
## 4817 5183
## pre-test dtree : #training: 6000 #testing 4000
## error rate: 0.32275
## 10 -fold CV run 1 dtree : #training: 9000 #testing 1000
##   error= 0.333
## 10 -fold CV run 2 dtree : #training: 9000 #testing 1000
##   error= 0.295
## 10 -fold CV run 3 dtree : #training: 9000 #testing 1000
##   error= 0.311
## 10 -fold CV run 4 dtree : #training: 9000 #testing 1000
##   error= 0.32
## 10 -fold CV run 5 dtree : #training: 9000 #testing 1000
##   error= 0.304
## 10 -fold CV run 6 dtree : #training: 9000 #testing 1000
##   error= 0.327
## 10 -fold CV run 7 dtree : #training: 9000 #testing 1000
##   error= 0.313
## 10 -fold CV run 8 dtree : #training: 9000 #testing 1000
##   error= 0.306
## 10 -fold CV run 9 dtree : #training: 9000 #testing 1000
##   error= 0.315
## 10 -fold CV run 10 dtree : #training: 9000 #testing 1000
##   error= 0.305
## 10 -fold CV results: avg error= 0.3129
```

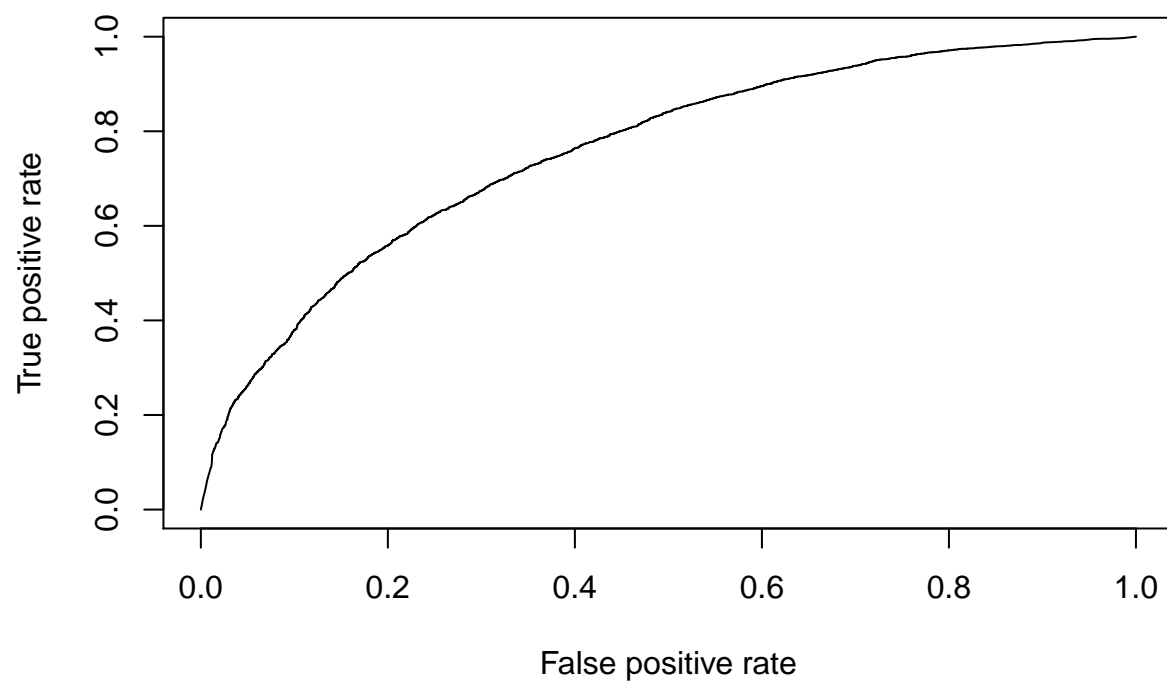
```
## error= 0.4140714 precision= 0.6298314 recall= 0.6029602 f-score 0.577765
## auc= 0.6797521
```

```
## my dataset: 10000 observations 6 predictors
## label (y) distribution:
##   0   1
## 4817 5183
## pre-test svm : #training: 6000 #testing 4000
## error rate: 0.30875
## 10 -fold CV run 1 svm : #training: 9000 #testing 1000
##   error= 0.297
## 10 -fold CV run 2 svm : #training: 9000 #testing 1000
##   error= 0.302
## 10 -fold CV run 3 svm : #training: 9000 #testing 1000
##   error= 0.331
## 10 -fold CV run 4 svm : #training: 9000 #testing 1000
##   error= 0.34
## 10 -fold CV run 5 svm : #training: 9000 #testing 1000
##   error= 0.291
## 10 -fold CV run 6 svm : #training: 9000 #testing 1000
##   error= 0.306
## 10 -fold CV run 7 svm : #training: 9000 #testing 1000
##   error= 0.316
## 10 -fold CV run 8 svm : #training: 9000 #testing 1000
##   error= 0.302
## 10 -fold CV run 9 svm : #training: 9000 #testing 1000
##   error= 0.327
## 10 -fold CV run 10 svm : #training: 9000 #testing 1000
##   error= 0.332
## 10 -fold CV results: avg error= 0.3144
```



```
## error= 0.3762134 precision= 0.6955626 recall= 0.619416 f-score 0.5858854
## auc= 0.7479301
```

```
## my dataset: 10000 observations 6 predictors
## label (y) distribution:
##   0   1
## 4817 5183
## pre-test ada : #training: 6000 #testing 4000
## error rate: 0.3185
## 10 -fold CV run 1 ada : #training: 9000 #testing 1000
##   error= 0.292
## 10 -fold CV run 2 ada : #training: 9000 #testing 1000
##   error= 0.294
## 10 -fold CV run 3 ada : #training: 9000 #testing 1000
##   error= 0.314
## 10 -fold CV run 4 ada : #training: 9000 #testing 1000
##   error= 0.323
## 10 -fold CV run 5 ada : #training: 9000 #testing 1000
##   error= 0.327
## 10 -fold CV run 6 ada : #training: 9000 #testing 1000
##   error= 0.32
## 10 -fold CV run 7 ada : #training: 9000 #testing 1000
##   error= 0.327
## 10 -fold CV run 8 ada : #training: 9000 #testing 1000
##   error= 0.324
## 10 -fold CV run 9 ada : #training: 9000 #testing 1000
##   error= 0.295
## 10 -fold CV run 10 ada : #training: 9000 #testing 1000
##   error= 0.304
## 10 -fold CV results: avg error= 0.312
```



```
## error= 0.3510117 precision= 0.7097402 recall= 0.6484099 f-score 0.6313298  
## auc= 0.7585517
```