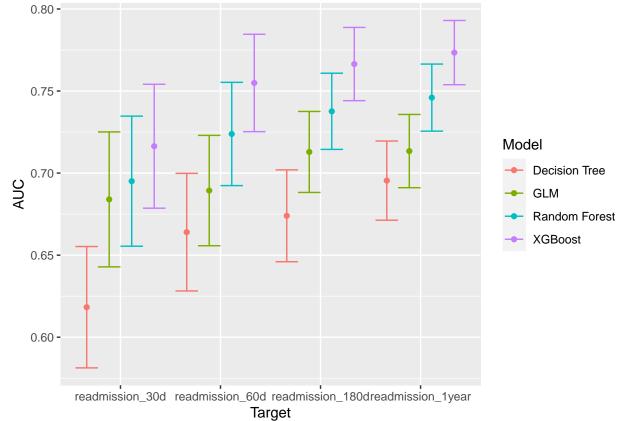
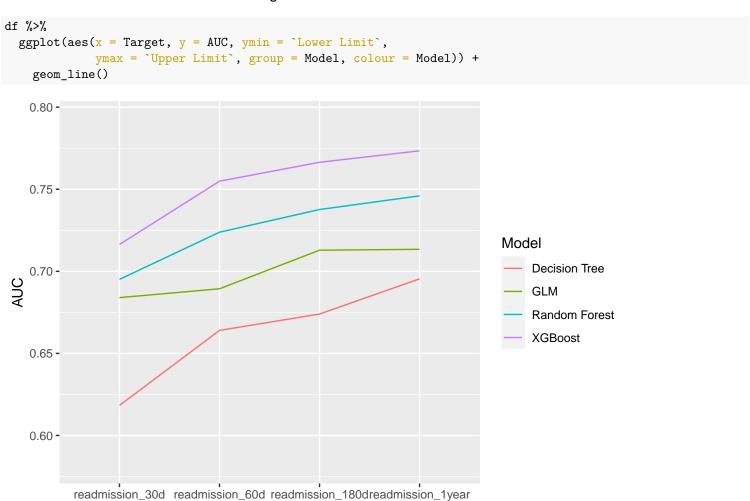
Final Results

Eduardo Yuki Yada

```
library(tidyverse)
library(kableExtra)
niceFormatting = function(df, caption="", digits = 2, font_size = NULL){
  df %>%
    kbl(booktabs = T, longtable = T, caption = caption, digits = digits, format = "latex") %%
    kable_styling(font_size = font_size,
                  latex_options = c("striped", "HOLD_position", "repeat_header"))
}
path <- "../EDA/auxiliar/performance"</pre>
df <- tibble()</pre>
for (file in list.files(path)){
  df <- df %>% bind_rows(readRDS(file.path(path, file)))
df <- df %>%
  mutate(Target = factor(Target, levels = c('readmission_30d',
                                             'readmission_60d',
                                             'readmission_180d',
                                             'readmission 1year')))
df %>%
  ggplot(aes(x = Target, y = AUC, ymin = `Lower Limit`,
             ymax = `Upper Limit`, color = Model)) +
    geom_point(position = position_dodge(width=0.9)) +
    geom_errorbar(position = position_dodge(width=0.9))
```





Target

Table 1:

Model	AUC	Lower Limit	Upper Limit	Target
XGBoost	0.77	0.74	0.79	readmission_180d
GLM	0.71	0.69	0.74	${\rm readmission_180d}$
Decision Tree	0.67	0.65	0.70	readmission_180d
Random Forest	0.74	0.71	0.76	$readmission_180d$
XGBoost	0.77	0.75	0.79	${\it readmission_1} {\it year}$
GLM	0.71	0.69	0.74	readmission_1year
Decision Tree	0.70	0.67	0.72	readmission_1year
Random Forest	0.75	0.73	0.77	$readmission_1year$
XGBoost	0.72	0.68	0.75	$readmission_30d$
GLM	0.68	0.64	0.73	${\rm readmission}_30{\rm d}$
Decision Tree	0.62	0.58	0.66	readmission_30d
Random Forest	0.70	0.66	0.73	$readmission_30d$
XGBoost	0.75	0.73	0.78	readmission_60d
GLM	0.69	0.66	0.72	readmission_60d
Decision Tree	0.66	0.63	0.70	${\rm readmission_60d}$
Random Forest	0.72	0.69	0.76	readmission_60d