From Line 608 (after previous edit)

## Compare models

```{r, compare\_models}

## Model Comparison

log\_metrics <-

log\_res %>%

collect\_metrics(summarise = TRUE) %>%

# add the name of the model to every row

mutate(model = "Logistic Regression",

time = log\_time)

# add mode models here

tree\_metrics <- tree\_res %>%

collect\_metrics(summarise = TRUE) %>%

mutate(model = "Decision Tree", time = tree\_time)

rf\_metrics <- rf\_res %>%

collect\_metrics(summarise = TRUE) %>%

mutate(model = "Random Forest", time = rf\_time)

xgb\_metrics <- xgb\_res %>%

collect\_metrics(summarise = TRUE) %>%

mutate(model = "XGBoost", time = xgb\_time)

knn\_metrics <- knn\_res %>%

collect\_metrics(summarise = TRUE) %>%

mutate(model = "k-Nearest Neighbors", time = knn\_time)

# create dataframe with all models

model\_compare <- bind\_rows(log\_metrics,

tree\_metrics,

rf\_metrics,

xgb\_metrics,

knn\_metrics

) %>%

# get rid of 'sec elapsed' and turn it into a number

mutate(time = str\_sub(time, end = -13) %>%

as.double()

)

model\_compare

```