## **Common Code**

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```
coef (data)
library(ggplot2)
  theme(axis.text.x = element text(angle = 10, hjust = .5))
```

```
library(pROC)
df <- data.frame (MODEL = modelType,</pre>
                   Precision=precision
```

```
CompareModelsAndPlotCombinedRocCurve <- function()</pre>
  library(gridExtra)
  library(grid)
  return(x/max(x))
```

```
modelType = "Kernal SVM"
summary(model)
library(keras)
train Y <- as.vector(train[, targetColumnNumber])</pre>
```

```
varImp(model)
 print(data.frame(RMSE = caret::RMSE(predictions, yActual), R2 = caret::R2(predictions, yActual)))
library(dummies)
print(summary(model))
```

```
library(ggfortify); library(ggplot2)
data sq<-sapply(data[,ignoredColumn], function(x) x^2
if(isPoly){
print(summary(model))
modelStep<-step(model, direction = "both", trace = 1</pre>
```

```
anova(model)
model$residuals
#plot residuals
plot(model$residuals, pch = 16, col = "red"
)

#The Akaike's information criterion - AIC (Akaike, 1974)
AIC(model)
#Bayesian information criterion - BIC (Schwarz, 1978)
BIC(model)

confint(model)

pred <- predict(model, test, interval = "predict"
)

test_Y <- test[,targetColumnNumber]
print(data.frame(RMSE = caret::RMSE(pred, test_Y),R2 = caret::R2(pred, test_Y)))
}</pre>
```