Titanic V1

```
library(titanic)
titanic_train <- na.omit(titanic_train)</pre>
nrow(titanic train)
## [1] 714
## Split Data
set.seed(42)
n <- nrow(titanic_train)</pre>
id \leftarrow sample(1:n, size = n*.7)
train_data <- titanic_train[id, ]</pre>
test_data <- titanic_train[-id, ]</pre>
## Change to Factor
titanic_train$Sex <- factor(titanic_train$Sex,</pre>
                              levels = c("male", "female"),
                              labels = c(0,1)
## Train Modl
logis_model <- glm(Survived ~ Sex,</pre>
                    data = train_data,
                    family = "binomial")
pred_train <- predict(logis_model, type="response")</pre>
train_data$pred <- ifelse(pred_train >= 0.5,1,0)
mean_train <- mean(train_data$Survived == train_data$pred)</pre>
## Test Model
pred_test <- predict(logis_model , newdata = test_data ,type = "response")</pre>
test_data$prep <- ifelse(pred_test>=0.5 ,1,0)
mean_test <- mean(test_data$Survived == test_data$prep)</pre>
## Confusion Matrix
confusion_matrix <- table(test_data$Survived,test_data$prep,</pre>
                            dnn = c("Actual", "Predicted"))
confusion_matrix
##
         Predicted
## Actual 0 1
##
        0 108 19
        1 30 58
##Model Evaluation
acc <- (confusion_matrix[1,1]+confusion_matrix[2,2])/sum(confusion_matrix)</pre>
precision <- confusion_matrix[2,2]/(confusion_matrix[2,1]+confusion_matrix[2,2])</pre>
```