SVM

2024-04-20

# Load necessary libraries

library(e1071)

# Load Data Sets

order\_products\_train <- read.csv(“path\_to\_order\_products\_train.csv”)

orders <- read.csv(“path\_to\_orders.csv”)

# Merge datasets on order\_id

combined\_data <- merge(order\_products\_train, orders, by = “order\_id”)

# Convert ‘churn’ to a factor

combined\_datachurn)

# Sample Dataset (computational limits)

set.seed(1) # reproducibility sample\_size <- 10000

# Create a sample index

sample\_index <- sample(nrow(combined\_data), sample\_size)

# Subset the data using the sample index

svm\_sample\_data <- combined\_data[sample\_index, ]

# Train the SVM model on the sample

svm\_model <- svm(churn ~ add\_to\_cart\_order + order\_hour\_of\_day + days\_since\_prior\_order, data = svm\_sample\_data, kernel = “radial”)

# Print the summary of the model

summary(svm\_model)

A computer screen shot of a computer screen

Description automatically generated