Lab Session 4 Customer Analytics – Questions after Lab

Questions received via email

- 1. [Konstantinos];
 - (1) It kind of confuses me why we need to use as.factor() in an already binary variable. For instance, I have noticed that under glmnet() and tree() you use as.factor() for the Churn variable, while under glm(), cv.glmnet(), ranger() you take Churn naturally.
 - (2) How do we calculate that label='yprob'?
- 2. [Noa];
 - (1) Random Forests variable importance: I do not understand the values of the following table

Variable importance:

- (2) Can you go over the comprehension check questions and share the code so we can check our own answers?
- 3. [Mieke];
 - (1) Why do we use lambda.min and what exactly are we implying here? pred<-predict(lasso_cv, newx=x, s = "lambda.min", type = "response")</p>
 - (2) When determining how many non-zero coefficient there are in a model, do you also have to count the intercept if it is non-zero (since it is also a coefficient)? Or should you look at the plot and check which value is above the vertical line?
 - (3) If we want to prune a tree, do we always have to start with the most complex tree and prune that one or are we supposed to prune the tree we already have from preceding questions?