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Multiple Linear Regression in R -Automatic Backward Elimination

Section 5, Lecture 51

Hi guys,

if you are also interested in an automatic implementation of Backward Elimination in R, here it is:

```
1
      backwardElimination <- function(x, sl) {</pre>
2
          numVars = length(x)
3
          for (i in c(1:numVars)){
            regressor = lm(formula = Profit ~ ., data = x)
4
5
            maxVar = max(coef(summary(regressor))[c(2:numVars), "Pr(>|t|)"])
6
            if (maxVar > sl){
7
              j = which(coef(summary(regressor))[c(2:numVars), "Pr(>|t|)"] == maxVar)
              x = x[, -j]
8
10
            numVars = numVars - 1
11
12
          return(summary(regressor))
13
14
15
        SL = 0.05
16
        dataset = dataset[, c(1,2,3,4,5)]
17
        backwardElimination(training set, SL)
```

Kind regards,

Hadelin

