

# Model Evaluation

### University of St. Gallen

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# **Assignment 1**

Data Analytics I: Predictive Econometrics Prof. Jana Mareckova

submitted by

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# **Contents**

Requirements	1
Exercise 1	1
Exercise 2	1
Exercise 3	1

# Requirements

To solve the following tasks, the required library and the data set are loaded first. The library *ggplot2* is used for plotting various graphics.

```
library(ggplot2)
load("GHA/insurance-all.RData")
```

#### Exercise 1

The number of observations in the data set corresponds to the number of rows and the number of covariates collected corresponds to the number of columns minus one (dependent variable). Thus there are 1204 observations and 6 covariates.

```
(n_obs <- nrow(data))
## [1] 1204
(n_cov <- ncol(data) - 1)
## [1] 6</pre>
```

## **Exercise 2**

The highest number of children who are covered by one health insurance is 5.

```
(max_children <- max(data$children))
## [1] 5</pre>
```

### Exercise 3

The region *northwest* has the lowest share of smokers. The share of smokers in this region is 16.9 percent.