

# Analysis Report Homework

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March 24, 2025

## Homework assignment

In order to receive the course's credit point you must complete the homework assignment. The homework consists of an analysis report in which you document the application of one or multiple machine learning methods in R to a data set of your choice (excluding data sets that were used during the course). Ideally, you use a data set from your own research.

The analysis report should include the following:

- An **Introduction** section in which the meaning and origin of the data are briefly discussed.
- An **Analysis** section in which the application of one or more machine learning methods to the data set is described including the presentation of the used **R code** (e.g. predicting an outcome variable using supervised machine learning). The results can also be presented in this section.
- A **Discussion** or **Conclusion** section in which the results are briefly discussed.
- The report should further contain some kind of data or results **visualization** (e.g. scatter plots of data, partial dependency plots for interpretation, plots of variable importance scores, ...).

The report has to be handed in by mail to [yrothacher@gmail.com](mailto:yrothacher@gmail.com) as a **pdf file until Sunday 27th of April 2025**.