

UNIVERSITY OF KOBLENZ - AG SOFTLANG

DATA SCIENCE

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## **Assignment 9: Model testing**

FOR THE SUBMISSION DEADLINE SEE OLAT

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January 5, 2022

## Question 9.1: Cross-validation

Fit the Stan models from the lecture, one using  $X_1$  and one using  $X_1$  and  $X_2$ , on the data sets provided as supplementary material. The supplementary material contains two data sets. Check which of both models fits the particular data set best, evaluated in terms of the square errors of predictions. Prevent overfitting by using a cross-validation approach.

Provide the code for comparing the models on the two data sets. Report on which of both models fits the particular data set best (e.g., in the README).