

# Code File Description

This document provides a brief description of the purpose and functionality of each code file:

- *SIMDATA.R* Contains the data generation functions.
- *Simulation.R*: Used to simulate data for various design.
- *evaluation.R*: Includes the functions for computing evaluation metrics.
- *ESTlevoutlier.R*: Handles the fitting of the thirteen models and their subsequent evaluation for the No outlier and bad-leverage point outlier .
- *ESTlevoutlier.R*: Handles the fitting of the thirteen models and their subsequent evaluation for the non-leverage point outlier .
- *SkinnyGibbsT.R*, *ExactGibbsT.R*, *SGlogit.R*, *EGlogit* , *skinny\_gibbs\_probit.R*, and *exact\_gibbs\_probit.R* contain functions for implementing the following methods: Skinny Gibbs with t-link , Exact Gibbs with t-link, Skinny Gibbs with logit, Exact Gibbs with logit, Skinny Gibbs with probit and Exact Gibbs with probit respectively.