
Algorithm 1: Backfitting algorithm

1. Set $\hat{\beta}_0 = \bar{y}$ and $\hat{s}_d = 0$ for $d = 1, \dots, D$

2. for $d = 1, \dots, D$ do

 1. Calculate partial residuals:

$$\mathbf{e}^d = \mathbf{y} - \hat{\beta}_0 - \sum_{k \neq d} \hat{s}_k.$$

 2. Set \hat{s}_d equal to the result of smoothing \mathbf{e}^d with respect to \mathbf{x}_d .

end

3. Repeat 2 until convergence.
