

Applied Geodata Science I

Session 10

Prof. Dr. Benjamin Stocker Spring semester 2023







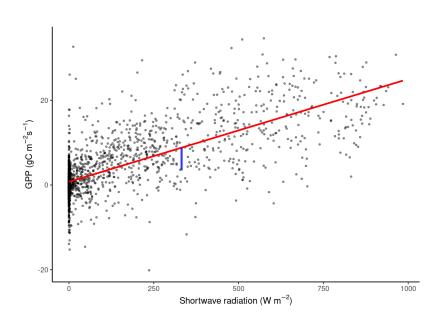


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```
lm(formula = GPP_NT_VUT_REF ~ SW_IN_F, data = df)
```



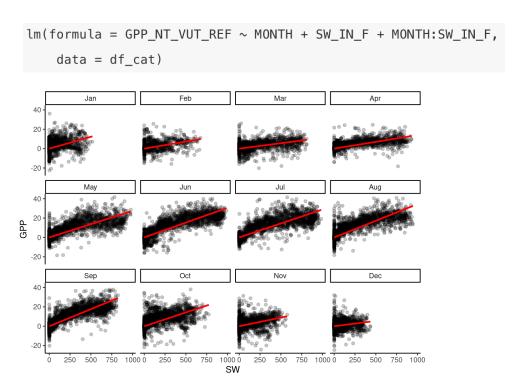




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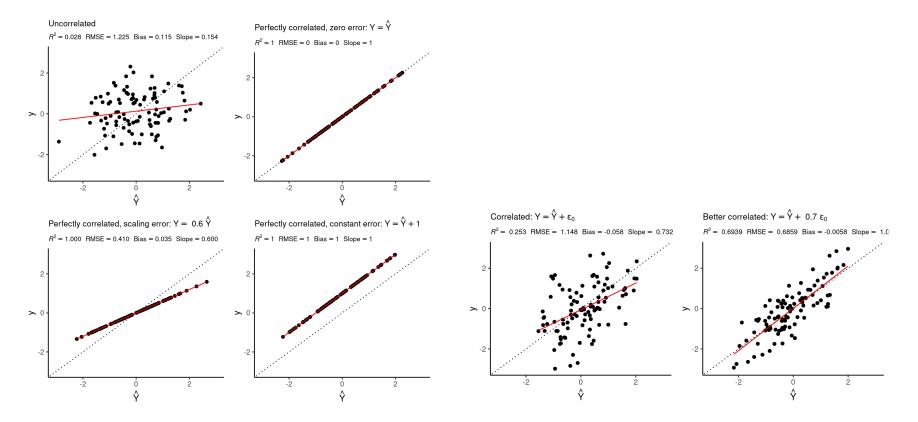




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- However, this does not mean that the model performs better on new data (data not used for fitting the model).
- This indicates a trade-off between model complexity and generalisability.
- Metrics that penalise model complexity should be used for comparing models of different complexity (e.g., AIC).

Report Exercise: Stepwise forward regression



Classroom exercise

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Classroom exercise

- Sketch pseudo-code for the stepwise forward regression
 - Define the loops.
 - At what position do you create the formula?
 - At what position do you select predictors?
 - How do you retain and complement the list of selected predictors?
 - How do you determine and update the list of remaining ("candidate") predictors?