

Quiz:

- (a) In which scenarios are inherently interpretable models usually much harder to interpret?
- (b) Why does usually interpretability become worse or more difficult if the generalization performance of the model improves?
- (c) Should we always prefer interpretable models? Explain and describe for which use cases interpretable models would be inconvenient?
- (d) In the linear model, the effect and importance of a feature can be inferred from the estimated β -coefficients. Is this statement true or false. Explain!
- (e) What is so special about LASSO compared to a LM with regards to interpretability? Would you always prefer LASSO over a LM?
- (f) Do the beta-coefficients of GLM always provide simple explanations with respect to the target outcome to be predicted?
- (g) Explain the feature importance provided by model-based boosting. What is the difference to the (Gini) feature importance from decision trees?
- (h) How can we use inherently interpretable models to provide insights whether two features are dependent?
- (i) What are the disadvantages of CART? What methods address them and how?