Prediction - Machine Learning

Powerful methods in high-dimensional and non-linear settings, e.g.,

- *lasso, ridge, ... (glmnet),*
- *regression trees (rpart),*
- *random forest (randomForest, ranger),*
- *boosted trees (gbm, lightgbm, xgboost)*
- *...*

Inference - Econometrics & Statistics

Statistical framework for estimation of causal effects, i.e.,

- *Structural equation models,*
- *Identification,*
- *Asymptotic properties,*
- *Hypothesis tests, confidence intervals,*
- *...*

Causal / Double Machine Learning