

# Ensemble Learning

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Basic idea:

- Instead of learning one model, learn several models
  - Many *base learners* are combined for one prediction
- Typically improves accuracy a lot.
- *Weak learners* can be very effective if many of them are combined correctly

# Overview

- Bagging – e.g. RANSAC, Random forests
- Stacking
- Boosting- e.g. AdaBoost, XGboost
- Error correcting output coding