

SML Finale: Boosting, SVM and Final Project

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Ada: R Package for boosting

- | Reference: **ada**: An R Package for Stochastic Boosting
<http://www.jstatsoft.org/v17/i02/paper>.
- | Package: ada.
<http://www.stat.wvu.edu/~mculep/math/ada/img.html>

Data, classifier tuning and performances

Feed various classifiers with generate/simulate data for good-bad performances

- | Simulation data: Choices from ml bench in R or your better alternative
- | Data Set: How to make the classification harder/easier?

Classifiers

Comparison with the Best: Bayes classifier (note: different from naive Bayes classifier)

Expectations:

- | Does the classifier expected to perform well for the data set?
- | Possibility of quick fix? Parameter tuning
- | Justifications: theoretical/heuristic/numerical proof/evidence/suggestions