

## Combining Classifiers Based on Kernel Density Estimates and Gaussian Mixtures

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### Abstract

Previous work has shown that combining techniques such as Bagging and Boosting are very effective to reduce the misclassification error of unstable classifiers. This paper reports experimental results of applying both methods to classifiers where the class conditional density is estimated by using a) Kernel density estimation and b) Gaussian mixtures. The experiment was carried out using a collection of machine-learning benchmarks. Keywords: Bagging, Boosting, Kernel density estimates, Gaussian mixtures, classification, ensembles learning.