Problems

Determine best classifier for given classification task, e.g. classification of biological sequences: transcription factor binding sites, splice sites, . . .
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Classifiers differ in

- statistical models
- learning principles

Accuracy depends on

- performance measures
- evaluation scheme
Jstacs – A Java framework for statistical analysis and classification of biological sequences

- open source Java library, released under GPL 3
- strictly object oriented

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- Maximum conditional likelihood
- Maximum a posteriori
- Cross validation
- Accuracy
- ROC curve
- PR curve
- Holdout sampling
- Your evaluation
- Bayesian network
- Mixture model
- Markov model
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