A

Aim
Finding a small set of robust features, to discriminate classes.

Dataset

Feature Selection
- DaMiR.FSelect
- DaMiR.FReduct
- DaMiR.FSort
- DaMiR.FBest

Overall Classification

*DaMiR.EnsembleLearning*
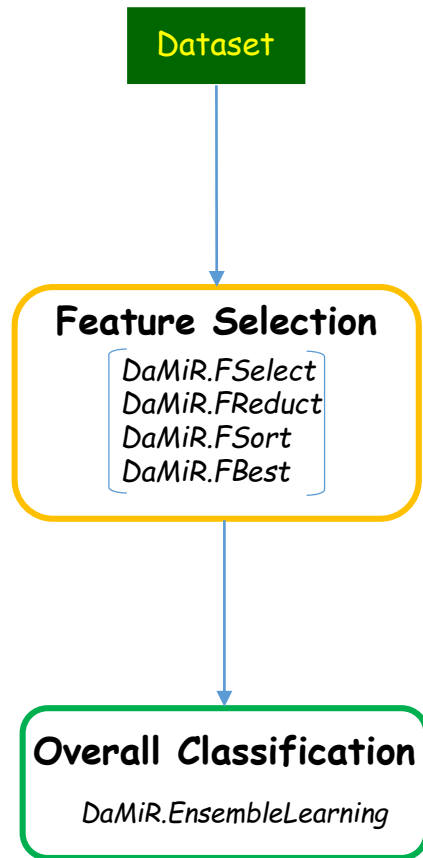
Output
- Averaged classification performance calculated on a dataset with selected features;
- Robustness evaluation of a feature set;

B

Aim
Finding the optimal model to predict new samples.

Resampling
(Cross-Validation/Bootstrap)

Dataset

Independent Test Set

Training Set
- fold-1
- fold-i
- fold-(N-1)

Validation Set
- fold-N

Feature Selection
- DaMiR.FSelect
- DaMiR.FReduct
- DaMiR.FSort
- DaMiR.FBest

Model Training

DaMiR.EnsL_Train

Model Test

DaMiR.EnsL_Test

Best Model Selection

DaMiR.ModelSelect

Prediction on new data

DaMiR.EnsL_Predict
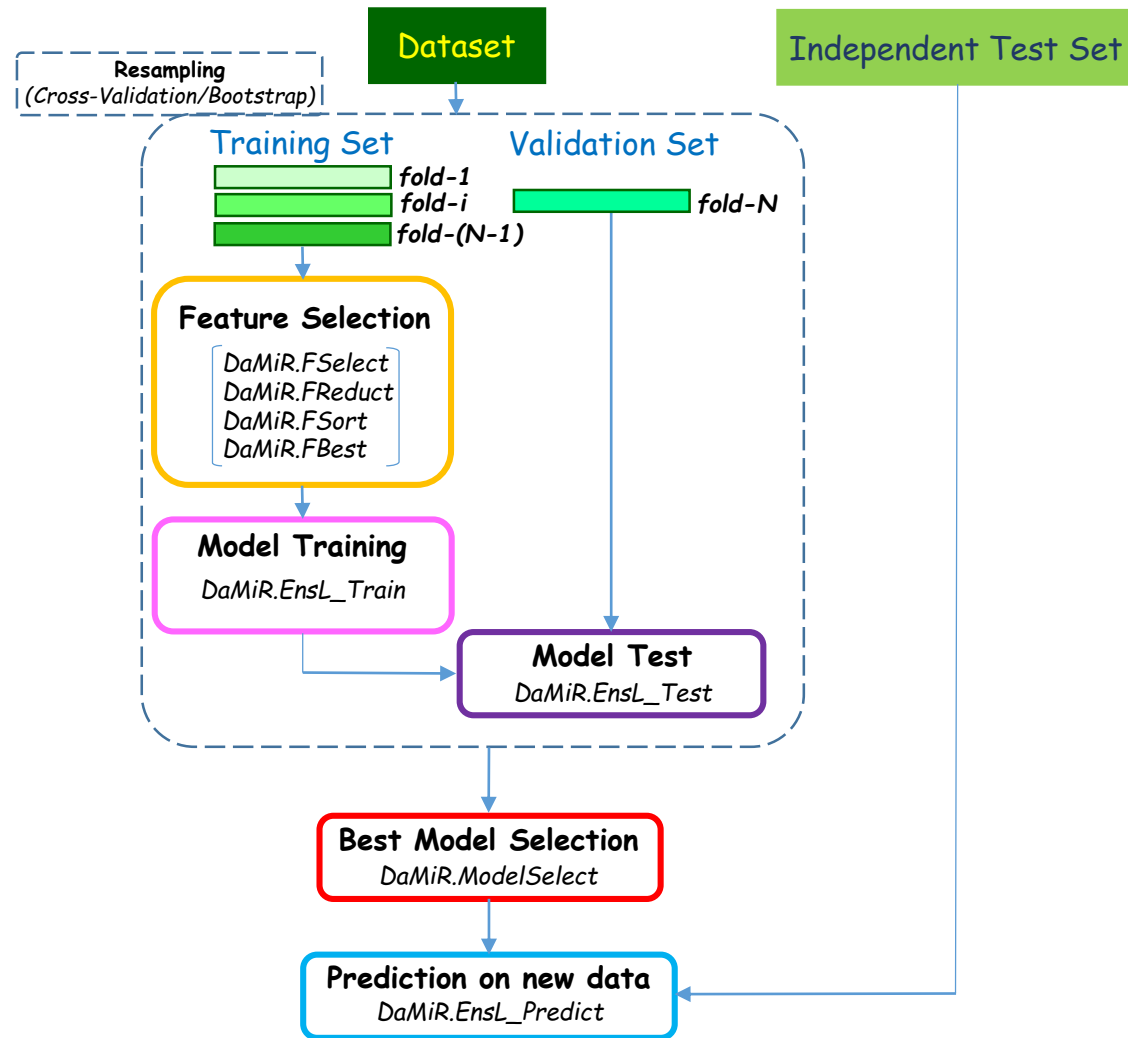
Output
- Performance for each resampling iteration;
- A single optimal prediction model;