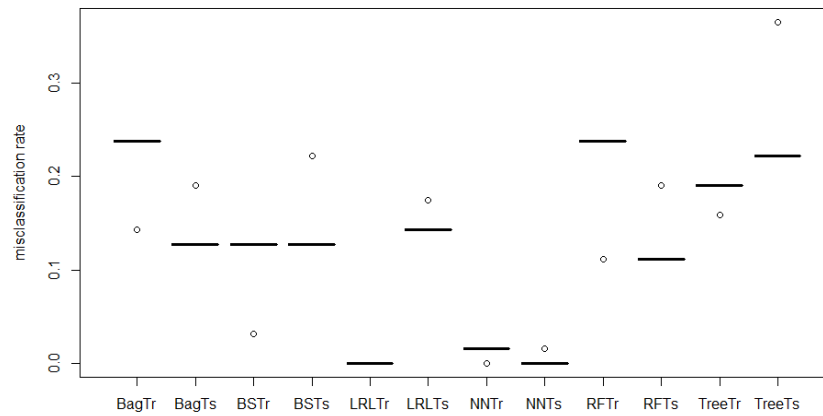
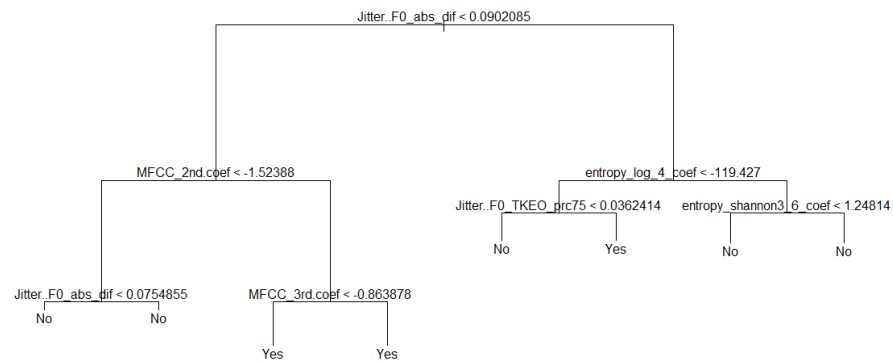


The obtained training and test misclassification rates are presented in below figure. Neural Networks outperforms the other five methods with small training and test misclassification rates.



In terms of interpretability, Regression Tree yields the best interpretable results since it provides a clear tree structure.



In addition, Lasso Logistic Regression performs variable selection by shrinking some coefficients to zero. From the solution path, it is found that the top 5 predictors are follows.

V4: *Jitter..F0_PQ5_classical_Baken*
V110: *X12th.delta*
V37: *Shimmer..Ampl_PQ5_classical_Baken*
V103: *X5th.delta*
V42: *Shimmer..Ampl_abs0th_perturb*

