

### **Exercises – Topic3 – Classification using Decision Trees**

- 1.** Use Decision Trees on the iris dataset to classify the three types of iris – setosa, versicolor, virginica. What are the decision rules?
  
- 2.** Apply the OneR and RIPPER algorithms to classify credit (yes/no) in credit.csv. Apply the C50 algorithm to classify poisonous vs. edible mushrooms in mushroom.csv. How does the accuracy of the three models (i.e. including the models in the book) compare for each of the datasets?
  
- 3.** Use the caret package and evaluate the models in 1 and 2 above in terms of accuracy, kappa statistic, sensitivity, specificity, and the F-measure.