CSC 412 Machine Learning and Knowledge Discovery
Assignment IV

1. (15 points) **Building a Decision Tree**

Here is a checklist for helping you complete the Project:

- ☐ Get the training set at: https://archive.ics.uci.edu/ml/datasets/car+evaluation
  Or just Google: UCI Car

- ☐ Understand the data set and program a decision tree on it (any programming language is OK)

- ☐ Randomly select 20%, 40%, 60%, and 80% as your training set, and the rest are your test set.

- ☐ Repeat 10 times and average the test results.

- ☐ Write a short report of your experiment results with your code as an appendix using \LaTeX. A plot of test accuracy trends should be included.

- ☐ In the report, you should also discuss your results.

- ☐ Due Date: 12/06 (Tue) 10:10 AM