# CSCI446/946 Big Data Analytics

## Week 7
## Classification

School of Computing and Information Technology

University of Wollongong Australia

# Task One

- Apply the Decision Tree algorithm to the "DTdata.csv" dataset.
  - Produce a summary of the built model by using `summary()` function and explain the summary.
  - Plot the tree based on the built model and explain the tree.
  - Predict the outcome of the following observation
    - Outlook = "rainy"; Temperature = "hot"
    - Humidity = "high"; Wind = "TRUE"

# Task Two

- Apply the Naïve Bayes algorithm to the "sample1.csv" dataset by
  - using the naiveBayes function from the e1071 package to build the classifier from traindata.
  - applying Laplace smoothing 0.01 when calling the naiveBayes function.
  - Display and explain the built classifier.
  - Predict the outcome for the testdata.

**Images Courtesy of Google Image**