

## **Assignment # 3**

**Due by:20-12-23**

### **Decision Tree Induction**

P-1: Induce a decision tree using ID3 algorithm for the Mushroom dataset. You have to code the algorithm yourself in a programming language of your choice. Split the dataset into Training and Test sets (80%-20%) and report accuracy of the classifier.

### **Naïve Bayes Classifier**

P-2: Design a Naïve Bayes classifier on the Mushroom dataset using the same training/test split as in the above problem. Report the accuracy and compare the performance of both the classifiers.

Note: Submit a pdf of the assignment containing performance comparison along with the code by the due date.