Exercise 2 – Decision Tree Classifier

- Requirement

Implement the Binary Decision Tree Classifier.

Fill the function of attachment "DecisionTree.py"

- Implement the “\_gini” function (20%)  
- Implement the “\_entropy” function (20%)

- Implement the “\_feature\_split” function (20%)

- Implement the “\_build\_tree” function (15%)

- Implement the “predict” function (15%)  
- Report(10%)

**- Please don't zip your code, and report !!!**   
**- Please upload files separate, you should upload the following files**  
**- code\_<your\_id>.py**  
- e.g. code\_108522072.py  
**- report\_<your\_id>.docx or .pdf**  
- e.g. report\_108522072.docx  
**- Due date: 10/20 00:00**

- Report should include  
  - The accuracy on both training and test data  
  - The effect of different parameters (Ex: criterion、max\_depth)   
  - A brief discussion of the results