Some tips for PML Lab #8 Animal classification using ID3 and CART algorithms

1. Create animal dataset with 10 rows x 5 columns as shown in the table. Your target column can be represented with TRUE and FALSE, OR 0 or 1, as you wish.

2. Import the following in addition to other imports for tree visualization.

import pydotplus
from sklearn import tree
from io import StringIO
import pydot

3. Create entrophy classifiere as: DecisionTreeClassifier(criterion='entropy')

4. Print the following tree details

How many nodes are there in your decision tree?:
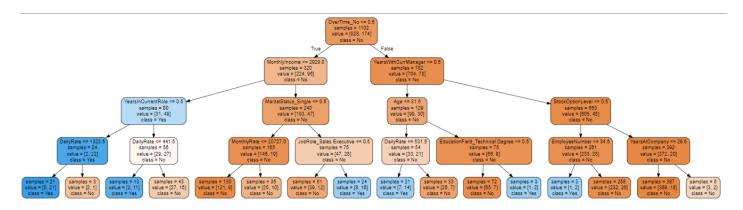   Print this value, "tree_.node_count" from your classifier variable
What is the depth of the tree?
        Print this value, "tree_.max_depth" from your classifier variable

5. Import the following for your tree visualization

import graphviz
import matplotlib.pyplot as plt
from sklearn.tree import export_graphviz
from IPython.display import Image
%matplotlib inline

6. Create the dot file (code is given in your lab manual pls check) using **export_graphviz()** method

7. Once dot file is created, then you can visualize online at http://www.webgraphviz.com/. Open and copy dot file contents and paste it here. It will generate graph for you.

8. Other activities will be very similar to the above steps

Happy Coding!