

Reference: Link to export trees using graphviz.

<https://scikit-learn.org/stable/modules/tree.html#alternative-ways-to-export-trees>

1. Install the following packages in your ML-Environment.

| | |
|---|---|
| <input checked="" type="checkbox"/> graphviz | Open source graph visualization software. |
| <input type="checkbox"/> pydot | Python interface to graphviz's dot |
| <input type="checkbox"/> pydotplus | Python interface to graphviz's dot language |
| <input checked="" type="checkbox"/> pygraphviz | Python interface to graphviz |
| <input checked="" type="checkbox"/> python-graphviz | Simple python interface for graphviz |

2. Import graphviz at the beginning of the python code using:
`import graphviz`
3. For Proj_09_DT_IRIS_Dataset.py, add the following lines in the last:

```
dot_data = tree.export_graphviz(cf, out_file=None,  
                                feature_names = ["sepal_length","sepal_width","petal_length","petal_width"],  
                                class_names = ["setosa", "vericolor", "virginica"],  
                                filled=True, rounded=True,  
                                special_characters=True)  
graph = graphviz.Source(dot_data)
```
4. After running the code, type “graph” in the console to see a clean picture of the tree.

Similarly, for Proj_10_DTC_Purchase_Dataset.py, add the following lines in the last:

```
dot_data = tree.export_graphviz(cf, out_file=None,  
                                feature_names = ["Age", "Salary"],  
                                class_names = ["No", "Yes"],  
                                filled=True, rounded=True,  
                                special_characters=True)  
graph = graphviz.Source(dot_data)
```