### The goal is to code a decision tree from scratch just using scikit-learn, numpy, pandas, seaborn and random libraries.

### The following document is the guideline for executing the sourcecode files:

One should have python3 installed in his/her computer for the following commands to be excuted. One can know Which version of python is in the computer by the following command:

```
python3 --version
```

for updating python one can use the following commands:

```
sudo apt-get update
```

```
sudo apt-get install python3.6
```

Also some libraries should be installed using the following commands:

```
pip3 install numpy                  #to install numpy
```

```
pip3 install pandas                 #to install pandas
```

```
pip3 install random2                #to install random
```

```
pip3 install seaborn                #to install seaborn
```

```
pip install -U scikit-learn         #to install scikit-learn
```

# Executing the files using terminal

# Files:

There are 3 files . One `.ipynb` files and two `.py` files . To execute the main file i.e the .ipynb one should install ipynb and the steps are given in the next block .

After installing ipynb , to execute the code in terminal you should first change your directory to the directory where you've saved the files . Then just simply you have type:

```
 ipython file_name.ipynb
```

Otherwise if you want to run it on Jupyter then type the following command

```
 jupyter notebook --allow-root
```

The .py functions only consists of function definitions and the functions are used in the .ipynb file One can simply execute the python files by the following command

```
python file_name.py
```

# ipynb:

A python package providing an easy way to explicitly import Jupyter Notebooks files ( `.ipynb` ) the same way you would import regular `.py` files.

## Installation

You can install ipynb with:

```
pip3 install ipynb
```