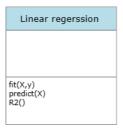
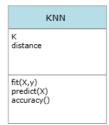
# Mini Projet:

## A Machine Learning

#### **UML**:







### **Decision Tree:**

Test 1: {fichie vide}

Remarque: there is no resulte

### Test 2:

With predict =[1,1]

```
***************DecisionTree Module************
Entropy: 1.0
Gini Index: 0.5
predictions of DecisionTree [0]
```

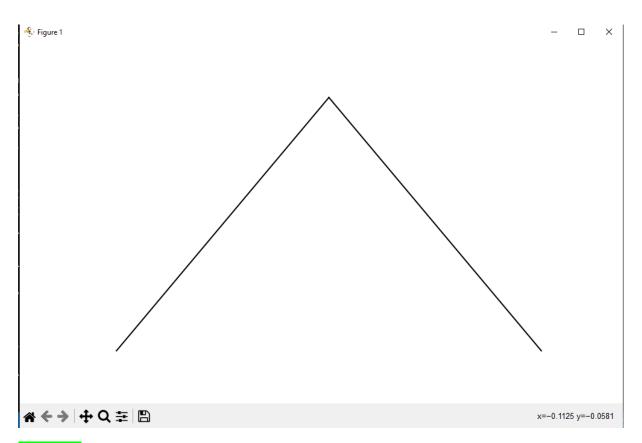
With predict =[0,0]

With predict =[1,0]

```
***************DecisionTree Module***************
Entropy: 1.0
Gini Index: 0.5
predictions of DecisionTree [0]
```

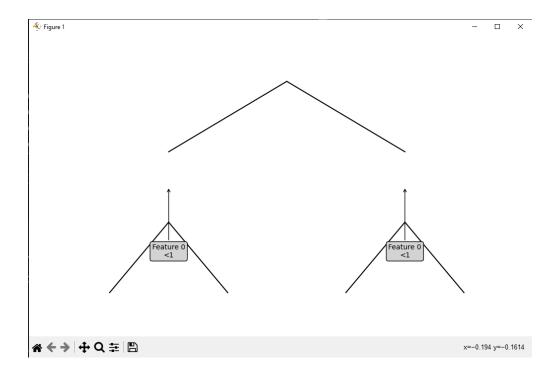
#### Test3:

### Plot1:



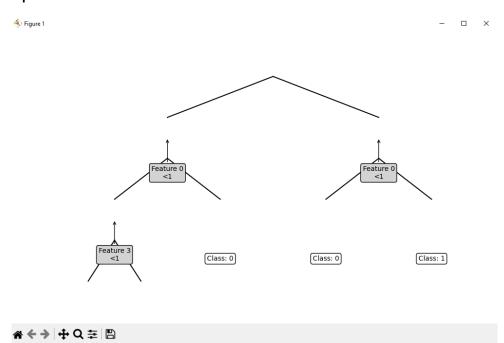
### Plot2:

With depth=2



## Plot 2:

### With depth=4



## Linear regerssion:

## Test1:

#### Test2:

### Test3: