## **Introduction Decision trees Basics**

*Precondition*

Before start check out:

You have read and understood

* Logistic and Linear Regression
* Classification

If not look it up later.

*The mission*

In this lesson we will:

Introduce the concepts of decision trees

Discuss probability and cost function

See a real example

Introduce Softmax Regression

*Outcome*

After this lesson you have learned about:

Decision trees elements concepts

Gini impurity (vs. entropy)

CART Cost function

Instability and sensitivity

Iris example in SciKit

*Next step*

Its time for some assignments:

Discuss and answer theoretical questions in the assignment *“Decision trees Questions“*

Solve the*”Iris exercise”*