## **Introduction Classification Basics**

*Precondition*

Before start check out:

You have read and understood

* Linear Regression

If not look it up later.

*The mission*

In this lesson we will:

Introduce the concepts of Classification

Classification types

Discuss different performance measures

Seen a real example

Introduce MNIST data set

*Outcome*

After this lesson you have learned about:

Classification vs. regression

Different classification types

Binary class classification

Multiclass classification

Mulitoutput classification

Multilabel classification

Performance measures

Cross Validation

Confusion matrix with calculations

Precision(specificity) & Recall with calculations

ROC-curve and AUC

MNIST example in SciKit

*Next step*

Its time for some assignments:

Discuss and answer theoretical questions in the assignment *“Classification Chapter 3 Questions“*

Solve the *“Classification MNIST Exercise”.*