

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

Multitoutput 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*”.