

Description of the dataset

- Avila Dataset → extracted form 800 images of the Avila Bible
- 12 copyists determined by a palaeographic analysis of the manuscript labelled as A, B, C, D, E, F, G, H, I, W, X, Y
- Dataset normalized using Z-score normalization
 Divided in a training set of 10430 samples and a testing set of 10437 samples

Description of the dataset

ATTRIBUTE DESCRIPTION (features):

- ID Name
- F1 intercolumnar distance
- F2 upper margin
- F3 lower margin
- F4 exploitation
- F5 row number

- F6 modular ratio
- F7 interlinear spacing
- F8 weight
- F9 peak number
- F10 modular ratio/interlinear spacing

Description of the dataset

CLASS DISTRIBUTION OF THE TRAINING SET:

- A: 4286
- B: 5
- C: 103
- D: 352
- E: 1095
- F: 1961

- G: 446
- H: 519
- I: 831
- W: 44
- X: 522
- Y: 266

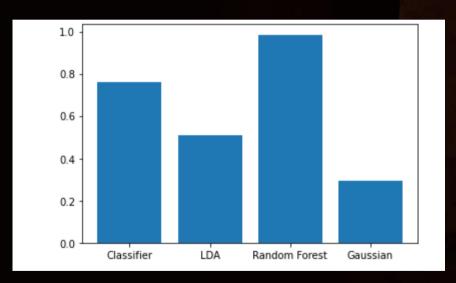


Goal

• The goal of the study is to identificate a sample to one of the copyist, using the features.

- The Avila dataset is splited in two:
 - 50% of the set will be the training set
 - 50% of the set will be the testing set

Model selection



• Random forest is the most efficient model for avila dataset.