

MACHINE LEARNING AND PATTERN RECOGNITION

Assignment 1

Matriculation number - s1569105
Examination number - B076165

November 2015

1 The Next Pixel Prediction Task

1.1 Data preprocessing and visualization

- (a) Let $N-m$ be number of minimum values and let m be number of maximum values. In our case min. and max. possible values are 0 and 1 respectively.

$$N - m$$

$$m$$

$$\sigma = \sqrt{5}$$

- (b) Classifiers performance:

Classifier	Percent correct
Naive Bayes (NaiveBayes)	20.1595 %
Decision tree (J48)	77.9353 %