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Learning with Naive Bayes

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Abstract

Keywords:

1. Introduction

2. Problem Statement

The problem that we must solve is a classification problem. Given an input file that contains examples (each example consists of a list of attributes and a classification), our task is to implement a learning algorithm that is trained to classify examples. The algorithm we will implement is called Naive Bayes. The learning algorithm will be tested using 10-fold cross validation and evaluating two metrics. Additionally, we will be testing how scrambling the values of different features will affect the performance of the learning algorithm.

2.1 Hypothesis

3. Algorithm

-It be what it do

4. Experimental Design

4.1 Set Up

4.2 Tuning

Add stuff about bin size, what else?
Experimenting w/ using different attributes

4.3 Final Parameters

-Bin size
-Number of attributes used
-Which attributes used?

5. Summary

References

Albert Einstein. Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]. *Annalen der Physik*, 322(10):891–921, 1905. doi: http://dx.doi.org/10.1002/andp.19053221004.