Leverage based sampling for classification Jesper Hinrich Løve and Julian Kopka Larsen

Supervised by Lars Kai Hansen

Abstract

We validate the results of leverage based sampling for from an leverage distribution (important points).

Motivation

The importance of sampling methods is initiated by very large datasets where it is not feasible to use all of the available data. redundant.

Research Questions

• Will the regression based sampling distribution improve our performance in classification?

• Can leverage based sampling be generalized to classification?

Leveraging in general

For any leveraging we want to find for each datapoint a can normalize into a distribution to sample from.



and have:

- GA: Nearly uniform leverage-scores
- T3: Mildly non-uniform leverage-scores
- T1: Very non-uniform leverage-scores

