Supervised Learning

Writeup for Assignment 01 - CS 6741

Magahet Mendiola

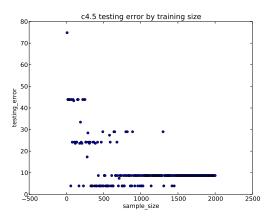


Figure 1: Test Error by Training Size - C4.5

ABSTRACT

An analysis of two machine learning classification problems, including an evaluation of various learning algorithms and an exploration into the

1. CLASSIFICATION PROBLEM 1 - POISON MUSHROOMS

The first dataset we shall examine is

2. CLASSIFICATION PROBLEM 2 - XXXX

Our second dataset was also chosen from the UCI ML Repository and is titled, Adult [1].

3. ALGORITHM EVALUATIONS

- 3.1 Learning Curve
- 3.2 Decision Trees
- 3.3 Neural networks

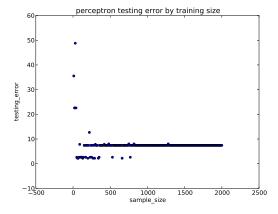


Figure 2: Test Error by Training Size - ANN

- 3.4 Boosting
- 3.5 Support Vector Machines
- 3.6 k-nearest neighbor
- 4. ANALYSIS
- 4.1 Overview of Results
- 4.2 Algorithm Comparison
- 5. REFERENCES
- K. Bache and M. Lichman UCI Machine Learning Repository 2013 http://archive.ics.uci.edu/ml University of California, Irvine, School of Information and Computer Sciences