

How Difficult is this Classification Task?

Ravi Kothari

IBM - India Research Lab

Block 1, I.I.T., Hauz Khas

New Delhi 110016, INDIA

e-mail : rkothari@in.ibm.com

Estimating the difficulty of inducing a classifier from a given set of training examples is an interesting and open question. More than a mere curiosity, it has significant practical implications in the construction of more sophisticated decision machines. In this talk, we will present a new measure for estimating the difficulty of inducing a classifier given a set of training examples. The mathematical properties of the measure as well its practical application will be shown.