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## Abstract

The present invention addresses the methods and systems for multi class classifier which is capable to classify the given single object as member of one or multiple classes at same point of time. Multi class classifier having single output unit and multiple output units are also addressed in details in the present invention. To train and test such multi class classifiers, collection of multi class records where each record is a member of multiple classes is required. Under the un-availability of such multi class records, the present invention is capable to generate such multi class record from single class records. Further, present invention is also applied to generate multi class record from preexisting multi class records, generated multi class records or any combination of preexisting single class, preexisting multi class and generated multi class records.

  
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