## compute area under a ROC curve computed by logit.roc()

## typical usage: logit.roc.area(roc(model, dataset))

## argument

## r an ROC curve returned by logit.roc()

logit.roc.area <- function(r) {

area <- 0;

for (i in 1:(length(r$pts)-1))

area <- area + ((1 - r$sens[i+1]) - (1 - r$sens[i])) \*

((r$spec[i+1] + r$spec[i])/2);

return(area)

}