

**Exercise: Decision rule for trading off FPs and FNs**

If  $L_{FN} = cL_{FP}$ , show that we should pick  $\hat{y} = 1$  iff  $p(y = 1|\mathbf{x})/p(y = 0|\mathbf{x}) > \tau$ , where  $\tau = c/(1 + c)$