







DISCRIMINANCE BETWEEN 2 GROUPS

group 1 = no benefit payed group 2 = benefit payed i. e. G = 2 (2 groups)

 $X_{kl}^{(l)}$ = random variable, describing the predictor number k of the person number l,

who belongs to the with benefits (i), $I=1...n_i$; $n = n_1 + n_2$

$$\begin{array}{lll} Y_{1}^{(1)} & := & b_{1}X_{11}^{(1)} + b_{2}X_{21}^{(1)} + \ldots + b_{m}X_{m1}^{(1)} & & \text{group (1)} \\ \\ Y_{1}^{(2)} & := & b_{1}X_{11}^{(2)} + b_{2}X_{21}^{(2)} + \ldots + b_{m}X_{m1}^{(2)} & & \text{group (2)} \end{array}$$

group centroids:

$$\overline{Y}^{(1)} := \frac{1}{n_1} \sum_{l=1}^{n_1} Y_l^{(1)} \qquad \overline{Y}^{(2)} := \frac{1}{n_2} \sum_{l=1}^{n_2} Y_l^{(2)}$$

$$\overline{X}_{k}^{(i)}$$
 = mean value of the predictor k in group i

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