

Clarif bayesian

Calculul coef-ori w_i cf ex 2.38 pt datele de la pr 4.2

uzi nider #89-97 din ... Bayes.pdf

ciuperai

nider #97

$$w_0 = \sum_{j=1}^4 \ln \frac{1-\theta_{j1}}{1-\theta_{j0}} + \ln \frac{\theta_y}{1-\theta_y} = \ln \frac{1-\theta_{11}}{1-\theta_{10}} \cdot \frac{1-\theta_{21}}{1-\theta_{20}} \cdot \frac{1-\theta_{31}}{1-\theta_{30}} \cdot \frac{1-\theta_{41}}{1-\theta_{40}} \cdot \frac{\theta_y}{1-\theta_y} =$$

uzi ati-ori de intr.

nider #91

$$\ln \frac{1-\frac{2}{3}}{1-\frac{2}{5}} \cdot \frac{1-\frac{1}{3}}{1-\frac{2}{5}} \cdot \frac{1-\frac{1}{3}}{1-\frac{2}{5}} \cdot \frac{1-\frac{1}{3}}{1-\frac{2}{5}} \cdot \frac{\frac{3}{8}}{1-\frac{3}{8}} = \frac{27}{243}$$

$$= \ln \frac{1}{\frac{1}{2}} \cdot \frac{1}{\frac{1}{2}} \cdot \frac{1}{\frac{1}{2}} \cdot \frac{1}{\frac{1}{2}} \cdot \frac{3}{8} = \ln \frac{2}{3^4} \cdot \frac{5^3}{3} = \frac{\ln 2 \cdot 5^3}{3^5} = \frac{\ln 250}{243}$$

$$= \ln 1 \frac{7}{243} = 0.028$$

nider #97

$$w_j = \ln \frac{\theta_{j1}(1-\theta_{j0})}{\theta_{j0}(1-\theta_{j1})} \text{ pt } j=1, \dots, 4$$

$$\Rightarrow w_1 = \ln \frac{\frac{2}{3}}{\frac{1}{2}} = \ln \frac{4}{3} \quad w_2 = \ln \frac{\frac{1}{3}}{\frac{1}{2}} = \ln \frac{2}{3} = -w_1 \quad w_3 = \ln \frac{\frac{1}{3}}{\frac{1}{2}} = \ln \frac{2}{3} = -w_1 \quad w_4 = \ln \frac{\frac{1}{3}}{\frac{2}{5}} = \ln \frac{5}{6} = -\ln 9 = -0.219$$

$$= 0.288 \quad = -0.288$$

\Rightarrow rep-1 lin corr lui Bayes Naiv pe ac set de date etc

$$w_1 x_1 + w_2 x_2 + w_3 x_3 + w_4 x_4 + w_0 = 0 \quad (\Rightarrow) \quad 0.288 x_1 - 0.288(x_2 + x_3) - 0.219 x_4 + 0.028$$