## MATERIAL COMPLEMENTAR Data Science Analytics 07/03/2022

#### Prof. Luiz Paulo Lopes Fávero

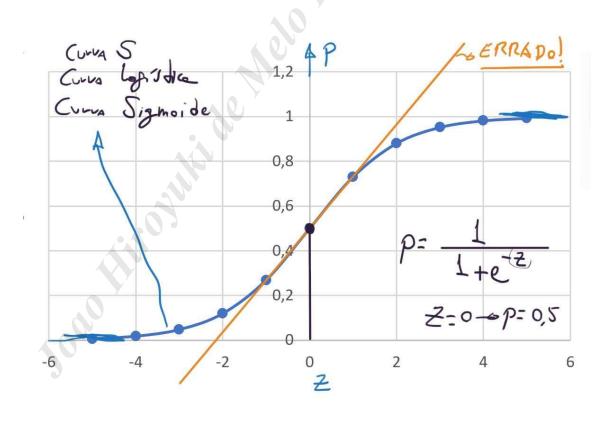
$$P_{LUi2} = 0.25 \implies chance = \frac{0.25}{0.75} = \frac{1}{3}$$

$$\frac{1}{1+e^{-\frac{1}{2}}} + \frac{1}{1+e^{\frac{1}{2}}} = 1$$

$$P_{\text{everto}}$$

$$P_{\text{everto}}$$

$$P_{\text{MAD everto}}$$



$$egin{aligned} & ext{atrasado} \sim Bernoulli \left( ext{prob}_{ ext{atrasado}=1} = \hat{P} 
ight) \ & \log \left[ rac{\hat{P}}{1 - \hat{P}} 
ight] = -26.17 + 0.19 ( ext{dist}) + 2.36 ( ext{sem}) \end{aligned}$$

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$$P(Y_{i}) = p_{i}^{Y_{i}} \cdot (1-p_{i})^{1-Y_{i}}$$

$$P(Y_{i}=1) = p \cdot (1-p) = P$$

$$P(Y_{i}=1) = p \cdot (1-p)^{1-y_{i}} = 1-p$$

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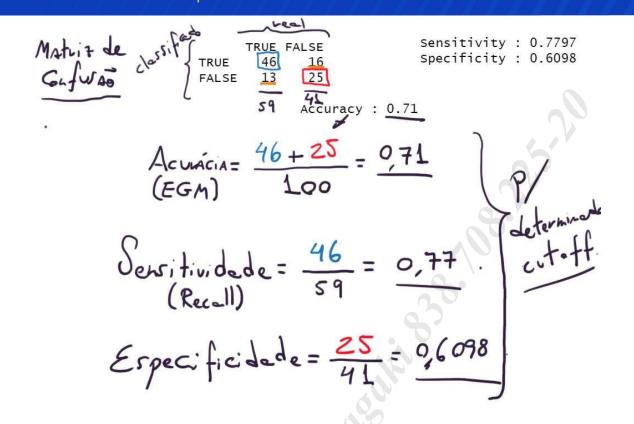
pleudo R2 McFadden (Nobel EGGOMA 2000) (erallas directas)

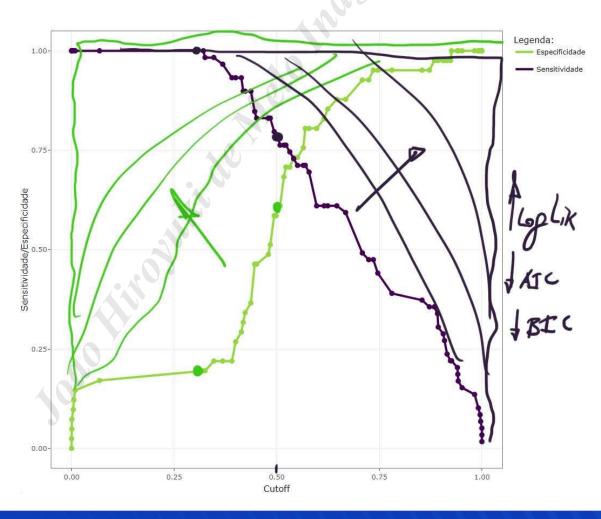
$$PR_{C-U}^{z} = \frac{1 - \left(\frac{e^{U_{o}}}{e^{U_{o}}}\right)^{2}h}{1 - \left(e^{U_{o}}\right)^{2}h}$$

$$1 - \left(e^{U_{o}}\right)^{2}h$$

cutoff:

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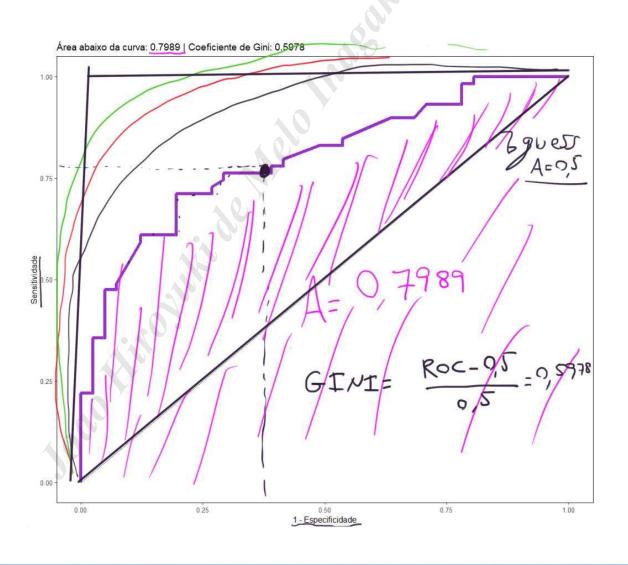




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ROC: Receiver operations Characterist





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