Classification

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Outline

1 Logistic Regression

• The probabilities of y=1 and y=-1 are expressed by $\frac{e^{\beta_0+x\beta}}{1+e^{\beta_0+x\beta}}$ and $\frac{1}{1+e^{\beta_0+x\beta}}$

$$\frac{1}{1 + e^{-y(\beta_0 + x\beta)}}$$