in binary classification, y is either 0 or 1 and yhat is either 0 or 1 $\,$

$$e = |-|= 0$$
, $e = 0 - 0 = 0$, $e = |-0 = 1|$, $e = 0 - 1 = -1$
 $e \in \{-1, 0, +1\}$, $e^2 \in \{2, 1\}$

$$e = |-|= 0$$
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 $e \in \{-1, 0, +1\}$, $e^2 \in \{0, 1\}$

 $R^{2} = 1 - \frac{55E}{55T} = 1 - \frac{3}{2.67} < 0$

 $\vec{b} = (X^T X)^{-1} X^T \vec{y}$

 $b = \begin{bmatrix} 00.01.1 \end{bmatrix}^{\top} \begin{bmatrix} 0 \\ 0 \end{bmatrix}$

[000-01-..1

 $\mathcal{A}_{\lambda}(x) = \begin{array}{c} b_{0} + \beta_{1}x = (1 \times 1) \overline{b} \\ y(x) = b_{0} + b_{1}x = (1 \times 1) \overline{b} \end{array}$

ムラの多らった

Span 2 2.1, x.23

$$e = |-|= 0$$
, $e = 0 - 0 = 0$, $e = |-0 = 1|$, $e = 0 - 1 = -1$
 $e \in \{-1, 0, +1\}$, $e^2 \in \{-1, 1\}$

$$e = |-|= 0$$
, $e = 0 - 0 = 0$, $e = |-0 = 1|$, $e = 0 - 1 = -1$
 $e \in \{-1, 0, +1\}$, $e^2 \in \{0, 1\}$

$$e = 1 - 0$$
, $e = 0 - 1 = -1$
 $e = 2 - 1$, $e = 0 - 1 = -1$
 $e = 2 - 1$, $e = 0 - 1 = -1$
 $e = 2 - 1$, $e = 0 - 1 = -1$
 $e = 0 - 1 = -1$

$$e \in \{-1, 0, +1\}$$
, $e^2 \in \{0, 1\}$
 $SSE = \{0, 1\}$
 $SSE = \{0, 1\}$
 $\frac{1}{n_w} \{ 1, 0 \}$
 $\frac{1}{n_w} \{ 1, 0 \}$

$$55E = \sum e_{i}^{2} = \# ornas$$

$$\frac{1}{n_{ii}} \sum_{i=1}^{4} |e_{i}| = A_{ii}$$

$$55T = \sum (1 - \frac{3}{27})^{2} \cdot 3 + (0 - \frac{3}{27})^{2} \cdot 24 = 2.67$$

$$55E = 2e^{2} = \# ornas$$

$$\frac{1}{h_{x}} 2 |e_{i}| = A$$

$$55T = 2(1 - \frac{3}{27}) \cdot 3 + (0 - \frac{3}{27}) \cdot 24 = 2.67$$

$$\frac{1}{h_{x}} 2 |e_{i}| = A$$

s cosp[x,1]

alop[x,, x,z]

g(x) = bo+b,x

$$55E = 5e^{2} = \#omas$$

$$\frac{1}{nu} [2] |e_{i}| = A$$

$$55T = 5(4i - 7)^{2} = (1 - \frac{3}{27})^{2} \cdot 3 + (0 - \frac{3}{27})^{2} \cdot 24 = 8.67$$

$$\frac{1}{nu} [2] |e_{i}| = A$$

$$55E = 5e^{2} = \#onas$$

$$\frac{1}{h_{N}} \frac{5}{i=1} = A$$

$$55T = 5(i-y)^{2} = (1-\frac{3}{27})^{2} \cdot 3 + (0-\frac{3}{27})^{2} \cdot 24 = 8.67$$

$$\frac{1}{h_{N}} \frac{5}{i=1} = A$$

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$$55E = 2e^{2} = \# ornas$$

$$\frac{1}{h_{ii}} 2|e_{i}| = A$$

$$55T = 2(1-\frac{3}{27})^{2} \cdot 3 + (0-\frac{3}{27})^{2} \cdot 74 = 2.67$$

$$55E = 5e^{2} = \#omas \qquad \qquad \frac{1}{n_{w}} \frac{5|e_{i}| = A}{1 + 2}$$

$$55F = 5(1 - \frac{3}{27})^{2} = (1 - \frac{3}{27})^{2} \cdot 3 + (0 - \frac{3}{27})^{2} \cdot 24 = 2.67$$

$$e^{2} \in \{2, -1, 0, +1\}$$
, $e^{2} \in \{2, 1\}$
 h_{*}
 $55E = \{2\} = \{2\} = \{2\} = A$
 $\frac{1}{h_{*}} \{2\} = A$
 $\frac{1}{h_{*}} \{2\} = A$

$$e = |-|= 0$$
, $e = 0 - 0 = 0$, $e = |-0 = |-1|$, $e = 0 - |= -1$