Polynomoel mr ×

a eyression Martiple X1 X2 X3 / __eapa io, gender Lpa

Simple Regression 3D-Plane GGPO 01

Corpor

20 - Lime 30 - Plane 40 - hyperph

Y=mx+b-> of-1set in+cr(cept x) Capoli $(-) + \beta_0 + \beta_1 + \beta_2 \times 2$ $= \beta_0 + \beta_1 \chi_1 + \beta_2 \chi_2 + \beta_3 \chi_3^2$ No of Cofficient 4D $mD = 1 = \beta_0 + \frac{\sum_{i=1}^{n} \beta_i \chi_{ii}}{\sum_{i=1}^{n} \beta_i \chi_{ii}}$

2D
$$\rightarrow y = m \times + b$$

 $y = \beta_0 + \beta_1 \times 1 + \beta_2 \times 2$
3D $y = \beta_0 + \beta_1 \times 1 + \beta_2 \times 2 + \beta_3 \times 3$
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100 student y) 3 footure, L'tam Shape (100,50mple) /=)ucturel $\left[\frac{1}{\sqrt{2}} + \beta_0 + \beta_1 + \beta_2 + \beta_2 + \beta_3 + \beta$ Chpa 10 gent/2/201

 $\begin{bmatrix} \gamma_1 \\ \dot{\gamma}_2 \\ \vdots \\ \dot{\gamma}_n \end{bmatrix} = \begin{bmatrix} \beta_0 & \beta_1 \times 11 & \beta_2 \times 12 & \beta_m \times 1m \\ \vdots \\ \beta_n & \beta_n \times n1 & \beta_n \times n2 & \beta_m \times n3 \end{bmatrix}$

X M3 ×12 m X_{2m} \ \(\chi\) \(\frac{3}{2}\) Xnm 72 (one of -1 = product. X2 x2 & x23

$$Y = \begin{bmatrix} y_1 \\ y_2 \\ \vdots \\ y_n \end{bmatrix}$$

$$Q = \begin{bmatrix} y_1 \\ y_2 \\ \vdots \\ y_n \end{bmatrix}$$

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Single liver rey ressim 巨= 三(リー)

ここう(ツーグ) $(y_1-y_1)^2+(y_2-y_2)^2+(y_3-y_3)^2-(y_1-y_1)^2$ $E=\frac{2}{12}(y_1-y_1)^2$ multiple regressi: $E = e^{T}e = (y - \hat{y})^{T} \cdot (y - \hat{y})$